

CHARLES LENTZ & SONS

MANUFACTURERS OF

Surgical Instruments,

Orthopedic Apparatus, etc.

7TH EDITION CATALOGUE

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Your correspondence is solicited.

CHARLES LENTZ & SONS

ESTABLISHED 1866

INCORPORATED 1906

CHARLES LENTZ & SONS

ILLUSTRATED CATALOGUE
AND PRICE LIST OF

Surgical Instruments Hospital Supplies

Orthopedic Apparatus, Trusses, etc.



SEVENTH
EDITION

CHARLES LENTZ & SONS

SURGICAL INSTRUMENTS

33 So. 17th St., - PHILADELPHIA

TO THE MEDICAL PROFESSION.

We have endeavored to make this—our Seventh Edition Catalogue—as complete as is practical. Your frequent use of it and resultant patronage are invited.

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[1915?]

CHARLES LENTZ & SONS.

Established 1866.
Incorporated 1906.



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1880 - 1889



CHARLES HENRY JONES



1880 - 1889



View of
E



of Sixth Floor, for the making of Surgical Instruments, Orthopedic Appliances, Electrical Apparatus, etc.
Here all Grinding, Polishing and Nickel-plating are done. All machinery is driven by electric motors.



View of Plaza Hotel Lobby, Manhattan, New York City

Section I.

General Surgical Necessities.

**Amputating and General Operating
Instruments.**

A Few Points Concerning the Manufacture of Our Surgical Instruments.

Surgical Cutting Instruments require the maker's closest attention, from the ordering of the raw material to the final touch of providing a keen edge. We procure for these instruments the very best tool steel, specially made for us according to our own specifications by a world-renowned firm. The blade of every knife made in our factory is heated several times during the process of forging the rough shape, instead of only once as is usual. Repeated heating avoids excessive temperature which must necessarily injure the steel by consuming its carbon. The benefit of our method to the quality of the instrument is invaluable; but owing to the increased labor and time involved, few manufacturers follow this practice.

Subsequent to forging, the blade is subjected to a vigorous hammering which toughens it and renders it tenacious of a keen edge. The final processes of tempering, grinding and honing are carried out with the utmost care. We are proud to assert that our mechanics in this line are experts and equal to the best in the world, and we can guarantee therefore every instrument that issues from our workshops.

As far as practicable, every instrument is constructed in such manner that it can be readily rendered aseptic.

Sharpening, repairing and nickel-plating has always our prompt and best attention. (See approximate quotations under "Repairing.")



General Surgical Necessities.

ANESTHETICS.



100

- 100.* Oxygenated-Chloroform Apparatus, H. L. Northrop's, for the safer administration of chloroform as an anesthetic, complete with cylinder of oxygen filled ready for use, in a fine Seal Grain Leather Cabin Bag 17 in. long, 7½ in. wide, 8 in. deep. \$20.50

This outfit consists of a small steel cylinder holding 40 gallons of pure oxygen and provided with a small wheel for controlling the pressure; a graduated three-ounce bottle with metal tubulatures; the requisite length of tubing, a one-gallon gas bag, and an inhaler. The latter is a metallic mold provided with an inlet tube for the admission of oxygen and an exhalation valve which prevents the inhalation of carbonic acid gas; attached to the hood is an inflatable rubber face shield. Sufficient space is left in the bag for carrying a can of ether, folding ether inhaler, hypodermic syringe, tongue-holding forceps, proper stimulants, infusion apparatus, mouth-gag, etc.

The apparatus is quite portable and weighs less than 20 lbs.

101. The same apparatus put up in a smaller bag, 17 x 4½ x 5½ in., not accommodating the accessories, but with a one-gal. gas bag attached to inhaler. \$20.50
102. The same apparatus with Northrop's two-way stop-cock. 37.50

Prices of Separate Parts.

Extra Cylinder of 40 gallons Oxygen	\$8.00
Refilling " " " "	2.00
Inflatable Face Shield	1.10
Graduated Chloroform Bottle	.35
Rubber Stopper with two tubes	.40

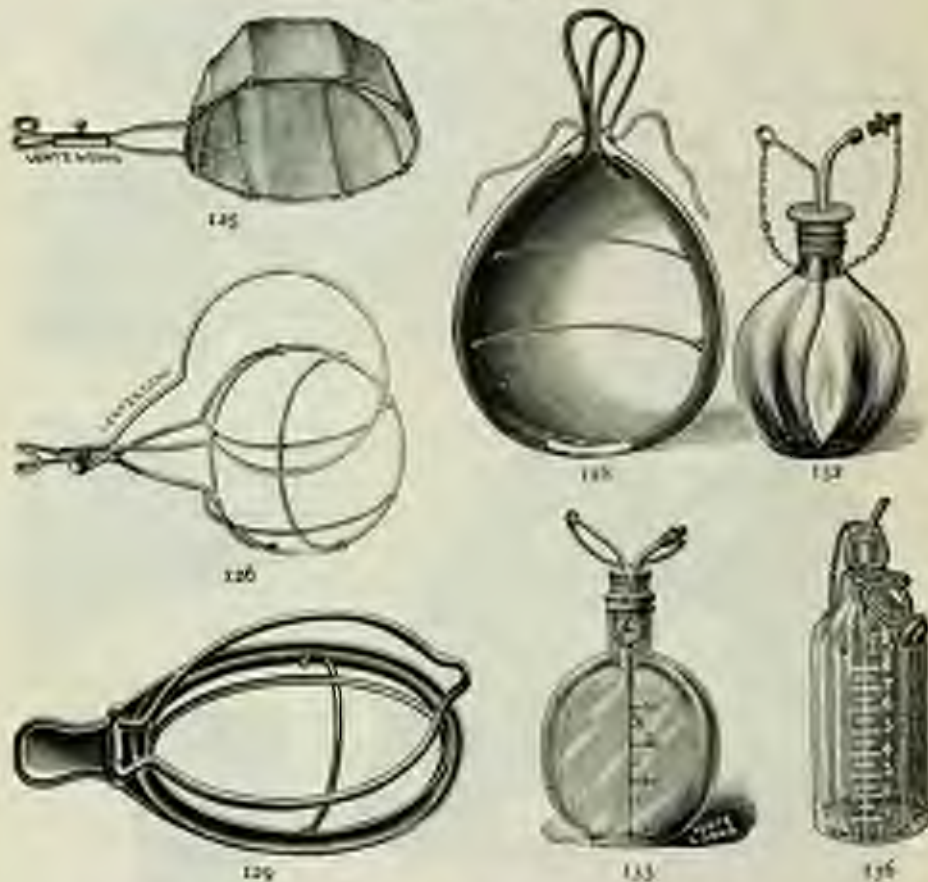
N. B. When extra cylinders of gas are ordered they are always charged and full price (\$6.00) credited when returned. Transportation at expense of customer.

As we frequently receive several cylinders a day, to avoid mistakes and delays, order should give his own name and address on the tag or label that bears our address.

All instruments illustrated are designated by a *.

General Surgical Necessities.

ANESTHETICS.



125.*	Chloroform Inhaler, Esenbach's, plain wire frame with drop bottle	\$ 75
126.*	" " " improved wire frame with drop bottle	75
127.	" " " with drop bottle and tongue-holding forceps in solid leather case	4 50
128.*	" " " Leuter's, folding, with drop bottle	1 50
129.*	" " " Schimmelbusch's, folding, with drop bottle	1 50

The arched wires of Nos. 128 and 129 fold down flat with frame, making it convenient to carry in pocket or satchel. The Esenbach's Improved Inhaler, No. 126 and Schimmelbusch's Inhaler have the advantage that a few layers of plain gauze can be used instead of the special cover, the latter requiring cleaning, whereas the gauze can be replaced every time. The illustrations show the wire frames that are closed down over the gauze and hold it securely.

132.*	Chloroform Bottle with drop tubes, plain	\$ 40
133.*	" " " graduated, fine	75
134.	" " " with lever stop-cock, can be controlled with thumb	1 25
135.*	Ether Bottle, Roberts', oval, with improved drop tube	85

(All instruments illustrated are designated by a *.)

General Surgical Necessities.

ANESTHETICS AND ACCESSORIES.



- 108.* Ether Inhaler, E. O'Neill Knox's; metal, packed with gauze; exhalation through central tube with valve at end; with laced rubber hood. \$4.00
Illustration shows sectional view.
- 109.* Ether Vapor Inhaler, Mary P. S. Rupert's, for the administration of ether in operations about the mouth and face. 3.00
Extra parts:—Hollow metal retractor \$1.75
Nasal tube, pliable metal .85
Hand bulb, including tubing 1.75
Descriptive circular on application.
- 110.* Ether Dropper, H. L. Northrop's, to use with Squibb's can or ordinary bottle. 40
- 111.* Ether Bottles, plain graduated 4 oz., 100; 6 oz., 600; 8 oz. 70
- 112.* " Drop Bottle, 4 oz., with enameled label "Ether" 1.25
- 113.* Chloroform Drop Bottle, 4 oz., with enameled label "Chloroform," amber 1.25
- 114.* Mouth Wedge, H. L. Northrop's, aluminum 1.00
- 115.* " Screw, hard rubber. 60
- 116.* Tongue-Holding Forceps, H. L. Northrop's, with catch, 3 1/2 inch 1.85
- 117.* " " Carstall's, like No. 146 Berger's, only one prong 1.25
- 118.* " " Scott's, fractured blade and one prong 7.00

Protective Wire Mask Frames, for use in Surgical Operations.

- 119.* Face Mask, Mikulic's, with gauze sewed around edge. per doz., \$6.00; each 50
- 120.* " " Lentz's improved, with wire ring fitting on inside to hold the gauze; can be readily renewed. per doz., \$9.50; each 90
- All instruments illustrated are designated by a *.*

General Surgical Necessities.

ANESTHETICS AND INHALERS.



135-139



137-139



143



150



139

Ethyl Chloride for Local Anesthesia and for Narcosis.

135.*	Ethyl Chloride, Gehlert's, 40-gram metal container	\$1.00
136.*	" " " " " " " "	1.60
137.*	" " " " " " " "	1.30
138.*	" " " " " " " "	1.50
139.*	" " " " " " " "	1.10
138.*	" " " " " " " "	5.00

Booklets of the above, giving valuable information, on application.

139.*	Somniform, in sealed glass capsules, for anesthesia:	
	3 cc. capsules, per pkg. of 1/2 doz., \$1.50; per pkg. of 1 doz., 2.40	
	The proper quantity for ordinary administration.	
	5 cc. capsules, per pkg. of 1/2 doz., \$1.50; per pkg. of 1 doz., 2.75	

The former quantity for exceptional cases and prolonged anesthesia.

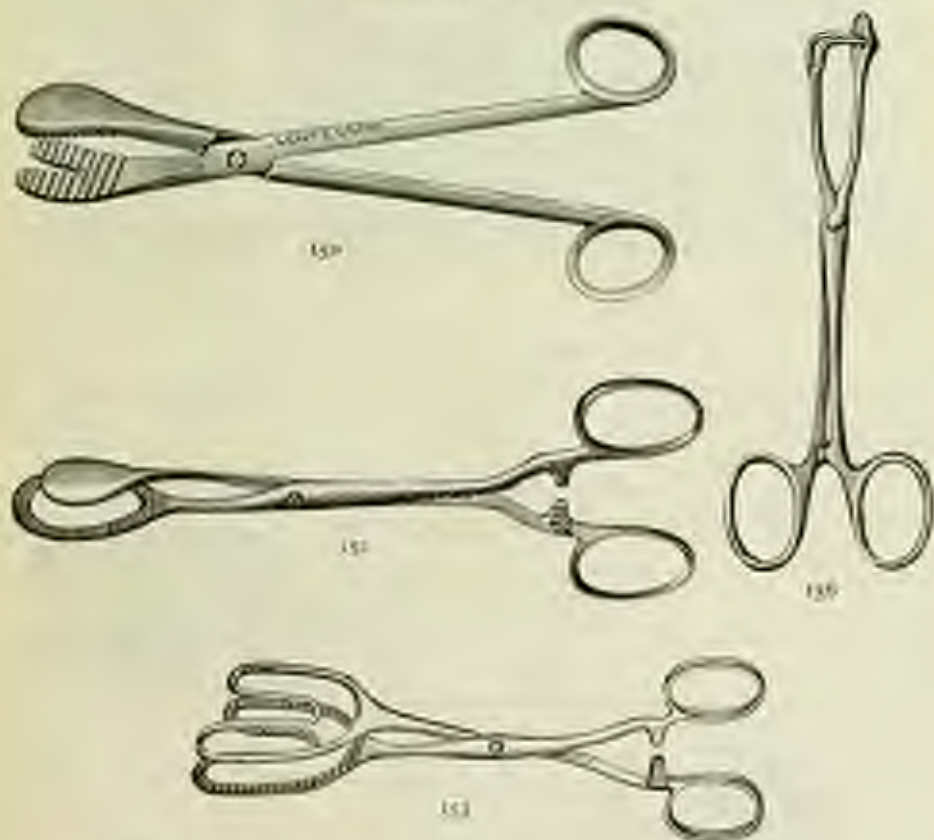
140.*	Somniform Inhaler, Stark's, consists of a nasal face mask having an inflatable rubber rim, a metal frame work of several cylinders joined together, and a collapsible rubber hose; complete in case	12.00
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The Stark Inhaler is not used for anesthesia in dentistry. It is intended for the continuous administration of somniform, or somniform with ether sequence, and requires 3 cc. capsules. A treat-book on surgical anesthesia, which describes the manipulation of the Stark Inhaler and the induction of surgical anesthesia, will be forwarded on request.

All instruments illustrated are designed by us.

General Surgical Necessities.

TONGUE-HOLDING FORCEPS.



150.*	Tongue-Holding Forceps, Eddy's	\$ 2.00
151.*	" " Mathews's	1.75
152.*	" " Canco's	2.00
153.*	" " House's	2.50
155.	" " Collin's Swastika, ring blade	3.75

When it becomes necessary, during the administration of ether, to pull the tongue forward, commonly an ordinary Dressing Forceps or a Tenaculum is employed.

These instruments, however, naturally injure the tongue, and it is therefore urgently advisable to use a proper instrument that will do the service without leaving bad effects.

Either of the forceps illustrated above are very satisfactory. The blades being broad, they will not cause any soreness, while the serrations will prevent slipping without exercising undue pressure.

155.*	Tongue-Holding Forceps, Berger's, two prongs fitting into a smooth flat blade	\$ 2.00
157.	" " Research's	1.00

General Surgical Necessities.

DRESSINGS.

155. Unbleached Roller Bandages.

1 inch by 5 yards	per dozen \$0 45	3 inch by 5 yards	per dozen \$0 90
1½ " 5 "	" 55	3½ " 5 "	" 1 05
2 " 5 "	" 65	4 " 5 "	" 1 15
2½ " 5 "	" 75		
Any size, or assorted, in custom			per pound 75
The purchaser profits in buying bandages by weight.			

156. Gauze Bandages—Plain.

1 inch by 20 yards	per dozen \$0 45	2½ inch by 10 yards	per dozen \$0 75
1½ " 10 "	" 55	3 " 10 "	" 85
2 " 10 "	" 65	4 " 10 "	" 1 00
Any size, or assorted, in custom			per pound 85

157. Flannel Bandages—White.

¾ inch by 5 yards each, 200 ; dozen \$2 20	1 inch by 5 yards each, 100 ; dozen \$4 15
2 " 5 " " 27½ " 2 85	2½ " 5 " " 450 ; " 4 85
4½ " 5 " " 35½ " 3 50	

158. Double or Tubular Stocking Material.

to draw over limbs or body before applying plaster bandages

2½ inch tube, heavy	per yard \$0 20
4 " " "	" 25
6 " " "	" 30
8 " " "	" 35
10 " " "	" 40
1 inch by 5 yards bandage, light, each, 75 ; dozen 7 50	



158



172

172. Plaster of Paris Bandages

spread on a sterilized gauze material, which allows the plaster to set very quickly, made by new machinery, which presses or imbeds the plaster into the gauze. Each bandage packed in waxed paper in a neat tin box.

1 inch by 5 yards	each, 200 ; per dozen, \$2 00
2½ " 5 "	" 200 ; " 2 50
3 " 5 "	" 250 ; " 2 65

Bandage Rollers, Shears, Plaster Saw, etc. see Fracture Appliances or Index.

All measurements illustrated are designated by a *.

General Surgical Necessities.

DRESSINGS.



150-182

Best Quality.		Sizes of Packages		
		1 lb.	$\frac{1}{2}$ lb.	$\frac{1}{4}$ lb.
181.*	Absorbent Cotton, plain	\$0.30	\$0.25	\$0.15
181.*	" " " horned	50	35	20
182.*	" " " carbolated	50	35	20
183.	Non-Absorbent Cotton	40	—	—
186.	Absorbent List	65	—	—
187.	Jute, plain	35	—	—
188.	Cham, plain	25	—	—
190.	Lamb's Wool, "Mexican" loose rope-like towings	2.10	1.10	50
191.	" " " plain, in sheets	—	1.10	50
192.	Oiled Silk, bright, 28 inches wide	—	per yard	1.50
199.	Gum-Percha Tissue, 35 inches wide, medium	—	"	90
200.	Macintosh Cloth, 35 inches wide, best quality	—	"	1.00
202.	Rubber Dam, pure gum, 35 inches wide	—	"	2.50
205.	Water-Proof Cloth, 35 inches wide, Billbo's genuine Vienna surgical dressing, light and durable; can be sterilized; is used extensively for covering pillows and making surgeons' aprons	—	"	65
206.	Emise, Dr. Meiszig's—Vienna, double coated, 35 inches wide; used by surgeons for keeping patients dry during operations, and more especially in intestinal anastomosis to assist in shutting off the peritoneal cavity from incised bowels	—	"	1.25
207.	Pure Silver Foil, Halsted's, for covering wounds	—	per book	25
207.	Silver Wire Screen, fine mesh, for covering wounds	—	—	—
	2 1/4 x 3 1/2 inch, \$3.00; 3 1/4 x 4 1/2 inch	3.25		
208.	Gargle Membrane, in sheets 4 x 6 inches	each, 25c; per dozen	2.50	
209.	Emergency Accident Case	—	—	6.75

Complete outfit for factories, mines, railroads, steamships, etc., in heavy tin case fully illustrated, containing two First Aid for Wounds, two ounces Absorbent List, one capsule Iodoform Gaze, six one-yard packages Absorbent Gaze, three four-ounce packages Cotton, one spool "Z.O." Adhesive Plaster, 1 inch wide; nine Roller Cotton Bandages, 2 inches wide; nine Roller Cotton Bandages, 2 1/2 inches wide; nine Gaze Bandages, 2 inches wide; nine Gaze Bandages, 2 1/2 inches wide; one set Carbulated Petrolatum; one bottle Camphorol and bottle for solution; one Scissors, one Tweezers, one Tourniquet, two packages Safety Pins, one First Aid Manual.

General Surgical Necessities.

DRESSINGS.



214 a-b-c



214 a-b-e



210-213

Antiseptic Gauzes, in Patent Glass Containers.

210*	Sublimated, 2 in 2000	1 yard, doz., 6 yards	\$5 80
211*	Borated, 40 per cent.	1 " 200; 1 3 "	80
212*	Carbolized, 50 per cent.	1 " 200; 1 3 "	80
213*	Iodoform, 10 "	1 " 200; 1 3 "	1 45

Antiseptic Gauzes, in Air-Tight Cartons.

214	Plain, Sterilized		2 yards \$2 25
214a*	No. 1, for general use	.25 yards, \$1 40; 100 "	5 50
214b*	No. 2, medium open mesh	.25 " \$1 40; 100 "	5 00
214c*	No. 3, open mesh	.25 " \$1 30; 100 "	4 50

245* Surgeon's "Z. O." Adhesive Plaster.



245

15	inch by 10 yards long,		
	per doz. spools, \$4 80; each	\$2 40	
1	inch by 10 yards long,		
	per doz. spools, \$1 00; each	65	
2	inch by 10 yards long,		
	per doz. spools, \$1 40; each	90	
2	inch by 10 yards long,		
	per doz. spools, \$1 30; each	1 25	
12	inch by 3 yards long,		
	per doz. rolls, \$2 40; each	2 45	
6	inch by 1 yard long, on muslin, each	65	
5	" " " " " " " " " " " "		
	on silk,		
	each	60	
	per doz., 60; per gross	60	
	\$2.10	50	
	100 "	80	

240.	Safety Pins, small	
	medium	
	large	



250-255



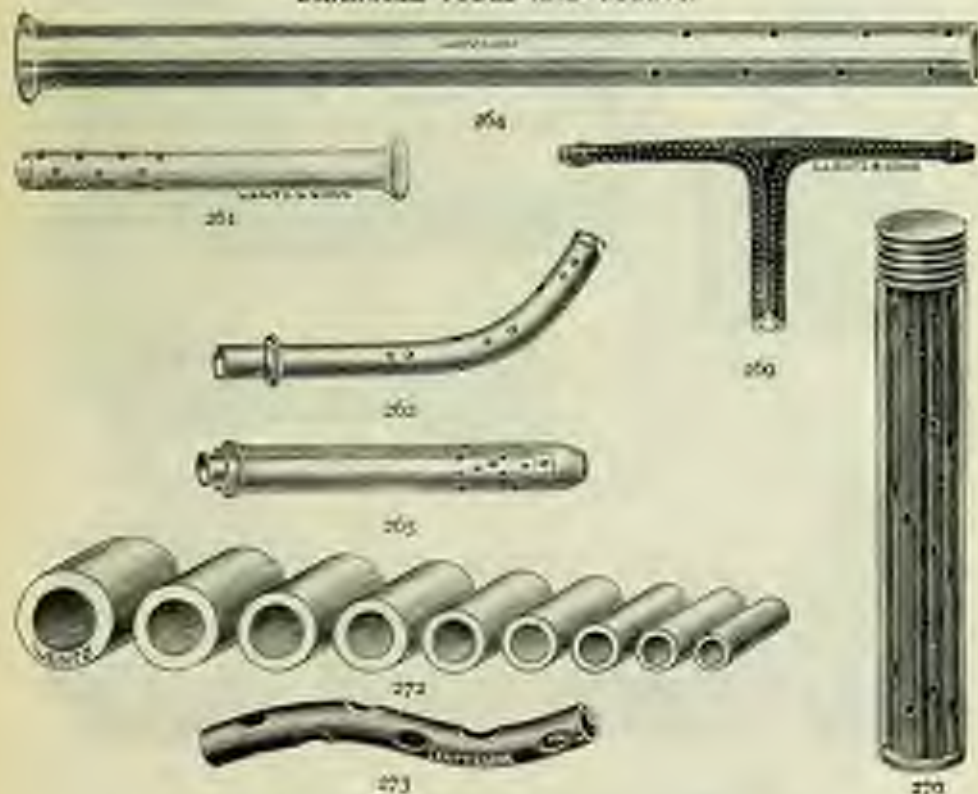
250

252*	Razor, concaved, superior quality,	
	1/2 in. handle,	
	1/2 in. \$1 50; 3/4 in. \$1 75; 1 in. \$2 00	
254	Razor, concaved, superior quality,	
	removable metal handle	2 00
254a.	Razor, concaved, superior quality,	
	small size, with metal handle	1 25
255*	Razor, concaved, superior quality, Hunter Roll's, in fine leather case	2 00
256*	" " " " " " " " " " " "	1 50

All articles illustrated are designated by a *

General Surgical Necessities.

DRAINAGE TUBES AND TUBING.



250.	Drainage Tube, Glass, Groove, 3 sizes and lengths, each 10c., 20c., 35c., 50c.,	\$0 20
251.*	" " " Thomas', straight, 3 sizes . . . per doz., \$2 25; each	25
252.*	" " " " " curved, 3 " " " " 2 25; "	25
254.*	" " " Price's straight, 1 size, 5, 6 and 7 inches long.	
	per doz., \$2 25; "	25
255.*	" " " Van Lennep's, 3 sizes, nested . . . 2 25; "	25
256.	" " " Tait's, 2 sizes, bulb end perforated . . . "	40
257.	" " " Keith's, bulb end and two oval holes . . . "	40
258.	" " " Supra-Pubic (see Made Urethral Instruments)	
259.*	" " " Hard Rubber, Thomas' double . . . "	1 75
259a.	Gauze Drain Covers, pure gum, very thin, six sizes, $\frac{1}{4}$ inch, $\frac{1}{2}$ inch, $\frac{3}{4}$ inch, 1 inch, 1 $\frac{1}{2}$ inch, 2 inch . . . per foot	25
270.*	Drainage Tubing, Soft Rubber, perforated, five 6 in. pieces, assorted sizes	40
272.*	" " " Pure Gum, not perforated, best quality, black or mahogany.	
	Sizes stated are internal diameter. Prices per foot:	
	$\frac{1}{4}$ inch	00
	$\frac{1}{2}$ "	14
	$\frac{3}{4}$ "	18
	1 "	25
	1 $\frac{1}{2}$ "	40
	2 "	60
	3 "	75

273.* " " " Pure Gum, perforated, add 25c. to prices of No. 272.*
For White Tubing, see Rubber Goods.

All instruments illustrated are designated by a *.

General Surgical Necessities.

LIGATURES AND SUTURES.



286 and 287



282 and 283



294



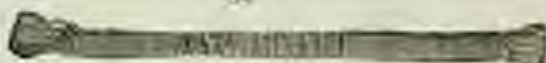
290 and 291



295



296



292

286.	"	"	"	"	"	Silk, Twisted, White or Iron dyed, on reel, 12 sizes, per doz., \$6.00; 3 for \$15.00	each \$5.00
287.	"	"	"	"	"	"	"
288.	"	"	"	"	"	4 sizes on a tablet in slip case	" 30
289.	"	"	"	"	"	7 sizes on glass spoons in solution	" 65
290.	"	"	"	"	"	2 size in Turk package with solution	" 75
291.	"	"	"	"	"	on reel, 24 sizes, per doz., \$1.75	" 18
292.	"	"	"	"	"	1 size on a tablet in slip case	" 45
293.	"	"	"	"	"	5 sizes on glass spoons in solution	" 65
294.	"	"	"	"	"	1 size in Turk package with solution	" 75
295.	"	"	"	"	"	14 sizes on half oz. spoons	per ounce 2.50
296.	"	"	"	"	"	14 sizes on half oz. spoons	" 1.50
297.	"	"	"	"	"	Twisted	"
298.	"	"	"	"	"	Cable Twist, White, 7 sizes, in skeins	per doz., \$1.75; each 40
299.	"	"	"	"	"	Turk's genuine hand-made, White, 4 sizes, in skeins	" 3.50; each 35
300.	"	"	"	"	"	Pure Silver Wire, for Suture, six 1-yard spoons in box, assorted sizes	" 35
301.	"	"	"	"	"	all sizes, from 14 to 32	per ounce 2.25
302.	"	"	"	"	"	per yard, No. 14, \$1.25; No. 16, \$1.50; No. 18	1.50
303.	"	"	"	"	"	per 2-yard coils, No. 18, \$1.25; No. 20, 20c; No. 22	45
304.	"	"	"	"	"	per 2-yard coils, No. 24, 20c; No. 26, 20c; No. 28	35
305.	"	"	"	"	"	per 2-yard coils, No. 28, 15c; No. 29, 20c; No. 30	25
306.	"	"	"	"	"	per 2-yard coils, No. 32, 15c; No. 34, 15c; No. 36	15

(All instruments illustrated are designated by a ")

General Surgical Necessities.

LIGATURES AND SUTURES.



Sampson and Soch's Certified Ligatures.

These ligatures have been prepared since 1892 and are used by many of the most prominent surgeons and hospitals in this country, who unhesitatingly consider their Sterility, Tensile Strength and Uniformity of size the best that modern methods can produce.

Sizes of catgut: 00, 0, 1, 2, 3, 4

311.*	Catgut, plain, 5 feet in each tube, 6 tubes in a box	per dozen tubes \$2.00
314.*	chromized, 5 feet in each tube, 6 tubes in a box	" " " 2.00



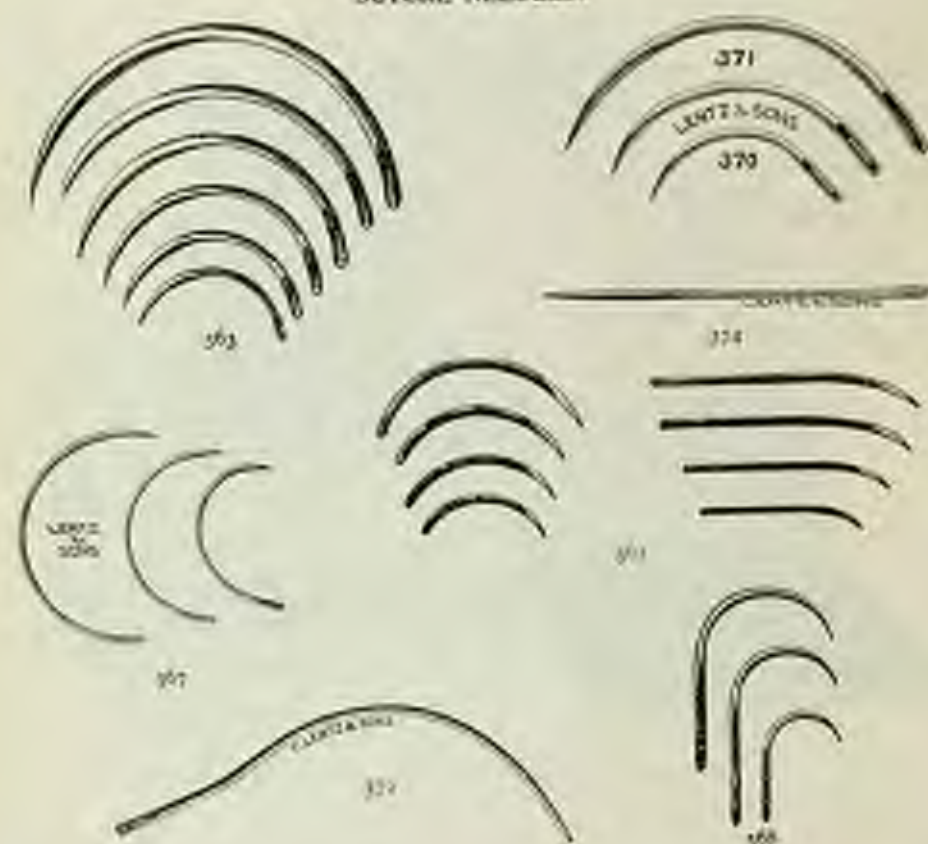
315.*	Catgut, plain, in breakable tubes, "Lee's"	per dozen tubes \$3.00
315a.	chromized, in breakable tubes, "Lee's"	" " " 3.00
315b.	Silk, white, twisted, " "	" " " 3.00
315c.	Horseshair, " "	" " " 3.00
315d.	Silk Worm Gut, " "	" " " 3.00
316.	Kangaroo Tendons, " "	" " " 3.00
316.	Catgut, plain and chromized, in tubes, "Van Horn's"	" " " 2.50
316a.	Kangaroo Tendons, " "	" " " 2.50

Special price in gross lots.

All instruments illustrated are designated by a *.

General Surgical Necessities.

SUTURE NEEDLES.



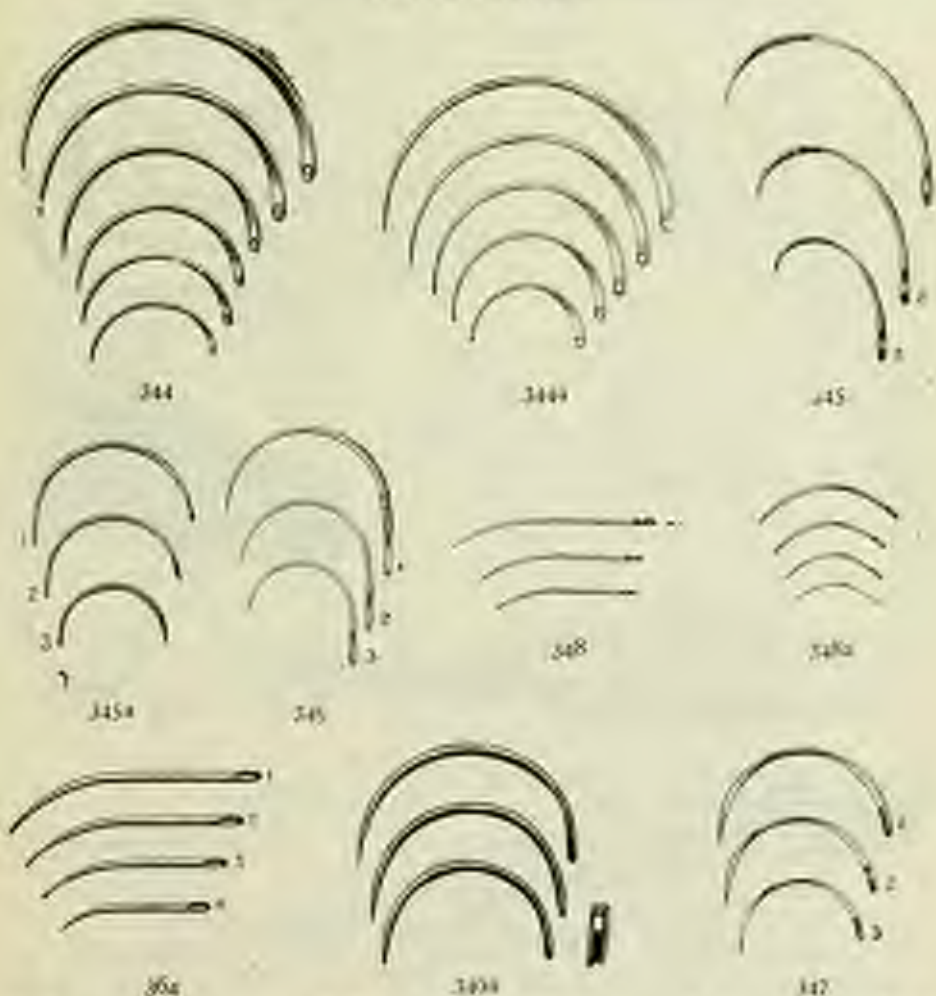
362.*	Needles, Eschsch's, trocar point, stout, half and full curved, $\frac{1}{8}$ to 2 in.	per doz.	\$9. 60
363.*	" Martin's, triangular point, stout, full curved, 6 sizes.	"	75
364.*	" Finnet's, round point, stout, half and full curved, $\frac{1}{4}$ to $1\frac{1}{2}$ in.	"	60
364b.	" Hook's, double edge, stout, slight curve, $\frac{1}{8}$ to $1\frac{1}{2}$ inch.	"	85
364c.	" Sims', concave point, straight and slight curved, $\frac{1}{8}$ to $1\frac{1}{2}$ in.	"	75
365.*	" Skene's, trocar point, straight, $\frac{1}{8}$ to $1\frac{1}{2}$ inch.	"	75
367.*	" Kelly's, triangular edge, sickle shape, 3 sizes.	"	75
368.*	" Hays's, " " hook " 3 " "	"	75
369.	" Penrose's, broad point, " " stout, 1 size.	"	1.00
370.*	" Hirst's, lance point, slight curved, 2 sizes.	"	1.00
371.*	" " large, stout, broad point, full curved, 1 size.	"	1.00
372.*	" Goodell's perineal, round, with spear point.	each, 50c.	1.50
374.*	" Price's abdominal, " " triangular point, $2\frac{1}{2}$ and $3\frac{1}{4}$ in.	"	1.00
375.	" Keith's abdominal, " slender, triangular point, $2\frac{1}{4}$ and 3 in.	"	75

NOTE.—For other needles see Gynecological Instruments.

All instruments illustrated are designated by a *.

General Surgical Necessities.

SUTURE NEEDLES.



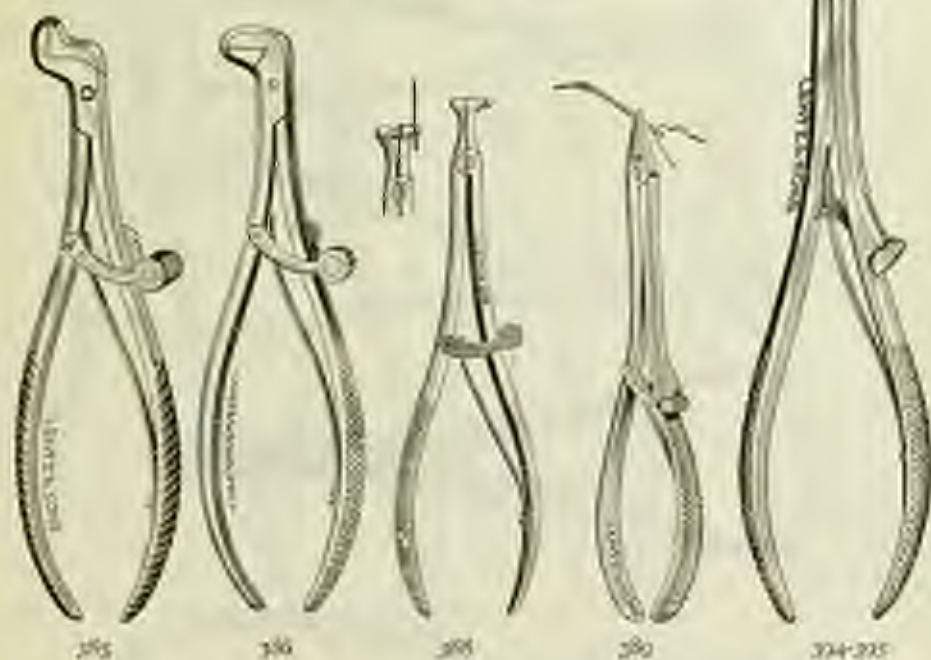
344*	Needles.	Ferguson's, cutting edge, round eye	5	sizes.	per	doz.	\$0 75
344a*	"	" " " " " " " " " " " "	5	"	"	"	75
345*	"	Kelly's, oblique curve, Lister eye	3	"	"	"	75
345a*	"	" " " " " " " " " " " "	3	"	"	"	75
346*	"	Mayo's, " " " " " " " " " " " "	3	"	"	"	75
346a*	"	" " " " " " " " " " " "	3	"	"	"	85
347*	"	Murphy's, tracheotomy, cutting edge	3	"	"	"	85
347a*	"	" " " " " " " " " " " "	3	"	"	"	85
348*	"	Emmet's, taper point, about half curved	4	"	"	"	60
348a*	"	" " " " " " " " " " " "	4	"	"	"	60
349*	"	Packard's, knife " " " " " " " " " " " "	3	"	"	"	85
349a*	"	" " " " " " " " " " " "	3	"	"	"	85
349b*	"	" " " " " " " " " " " "	4	"	"	"	60
349c*	"	" " " " " " " " " " " "	4	"	"	"	60

Our needles are all of superior quality and finish, procured from the best English maker; they are excellently tempered and have large eyes.

*All instruments illustrated are designated by a *.*

General Operating Instruments.

NEEDLE HOLDERS.



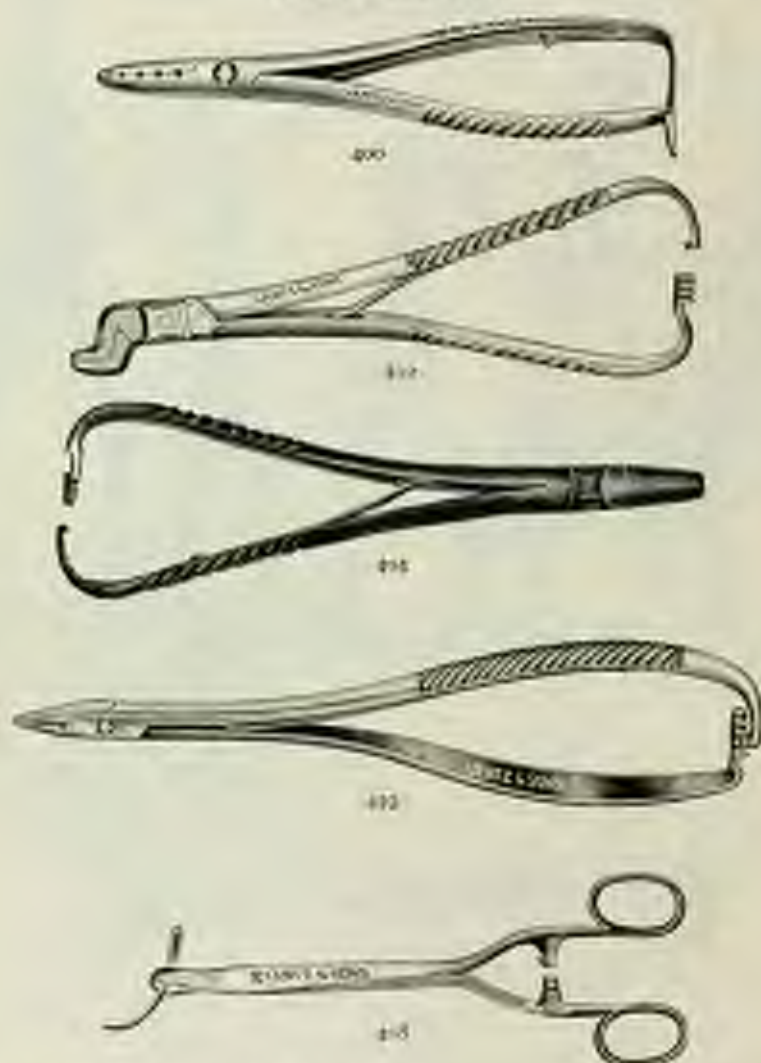
26

987*	Needle Holder,	Leam's Universal, for flat or round needles	\$3.85
988*	"	Fowler's Improved for Hagdon's flat needles	1.75
989*	"	Brinck's Universal, needle is held in a hook which can be turned in any direction	1.40
989*	"	Reisner's Automatic, 6 inches long, \$2.60; 7 inches, \$2.85; 8 inches, 3.10	3.10
990	"	Franklin's, self-locking, 7 inches long	3.00
991	"	Russell's, with ratchet, 7 1/2 inches long	3.30
994*	"	Stable's Improved Reisner's, self-locking, 8 inches long	3.00
995*	"	" " " " " " " " " " " "	3.50
995*	"	Dwyer's, 7 inches long	2.00

All measurements obtained are designated by a *

General Operating Instruments.

NEEDLE HOLDERS.

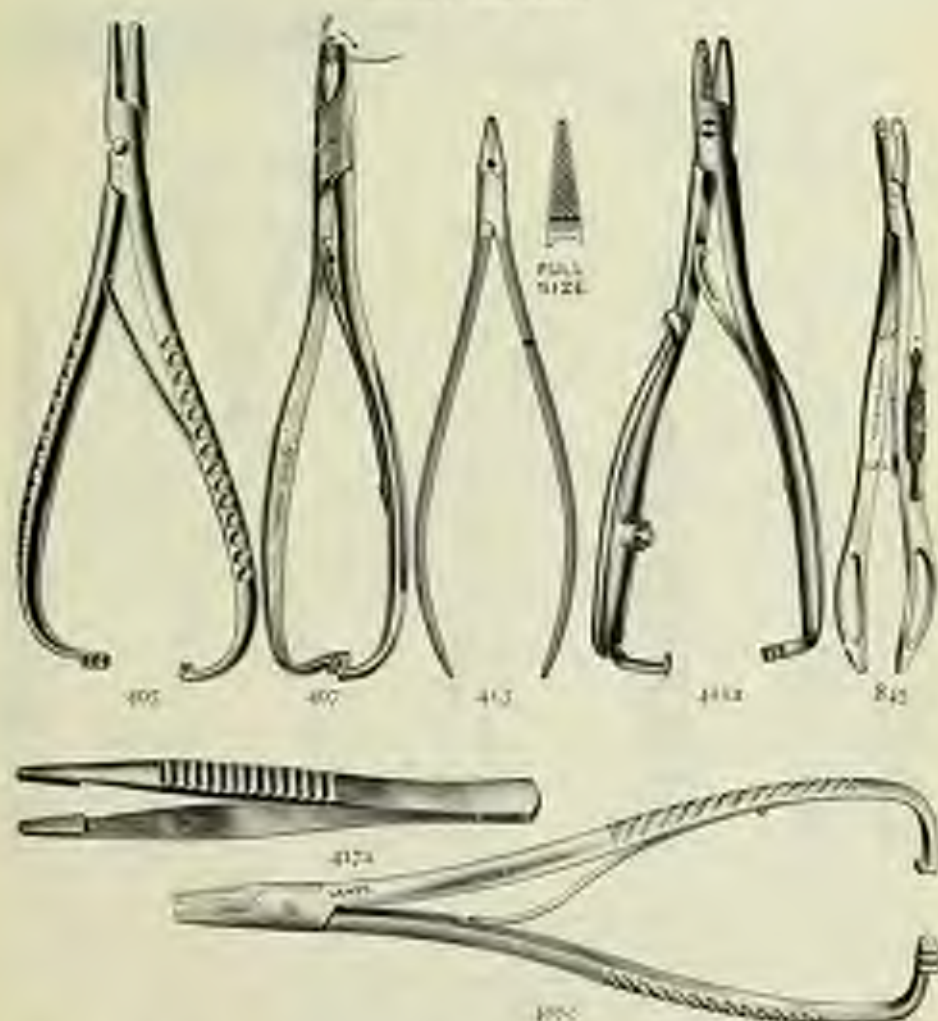


400 ^a	Needle Holder.	Kerr's, 6 inches long.	\$ 2.25
401.	"	McIlwain's, laton, with beveled ends, 7 1/2 inches.	1.50
402 ^b	"	Van Lennep's, box joint, for flat or round needles.	1.00
403.	"	Macdonald's.	1.50
404 ^b	"	Mathews's.	1.75
405	"	Fischer's original, ring handles.	2.00
406 ^b	"	Sims' laton.	2.00
407.	"	Baldy's, same as Noble's, without catch, 8 inches.	1.50
408 ^a	"	B. C. Hunt's.	1.25
410.	"	Waller's improved Hagdon's, 2 inches.	1.50

All instruments illustrated are designated by a

General Operating Instruments.

NEEDLE HOLDERS.

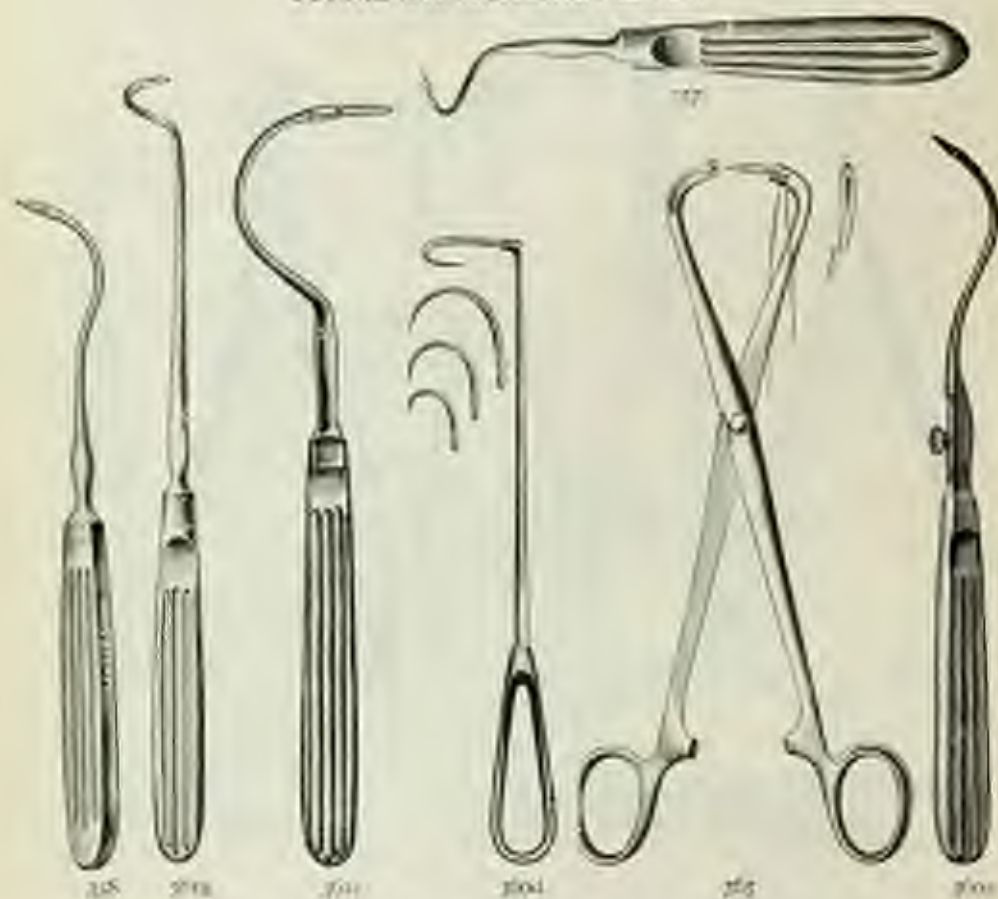


405.*	Needle Holder, Mathies's, made by Krusen, 5½ inches	\$1.75
405b.	" " " " " " " "	2.00
405b.	" " " " " " " "	2.50
407.*	" " " " " " " "	3.00
407b.*	" " " " " " " "	3.50
407c.*	" " " " " " " "	3.50
407d.*	" " " " " " " "	4.25
411.	" " " " " " " "	4.75
411a.*	" " " " " " " "	5.00
413.*	" " " " " " " "	3.25
420.	" " " " " " " "	2.50
845.*	" " " " " " " "	1.00
417.	" " " " " " " "	1.50
417a.*	" " " " " " " "	2.50
417b.*	Needle Extensor, pattern of St. Mary's Hospital at Rochester, Minn.	1.00

All instruments illustrated are designated by a *.

General Operating Instruments.

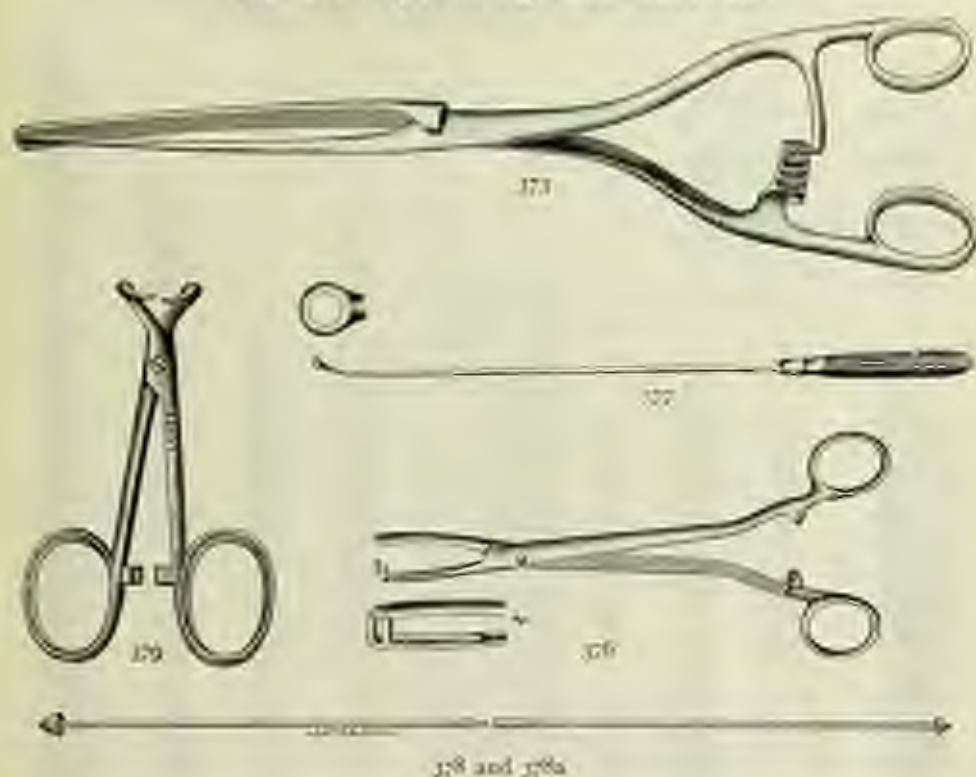
SUTURE AND ARTERIAL NEEDLES.



357.*	Needle, Carsten's, cervix, short, right and left	each \$1 25
357a	" " perineum, long	1 50
358.*	Melvin M. Franklin's, full curved, sharp point	1 75
359	Doyen's, full curved, knife point (see Gynecological Section)	1 75
359a	B. C. Hirst's, perineum, full curved at right angle, knife point (see Gynecological)	1 75
360	Reverdin's, full curved, extra large	3 25
360a.*	" " regular, with closing eye, four different curves	each 2 50
360b.	" " automatic closing eye, four different curves	" 2 75
360c.	Lambdin's, automatic closing eye	\$2.50; large 3 00
360d.*	Jack's, set of three needles in one handle, for gall bladder	4 00
361.	Anconin, Carsten's, spinal curve, blunt point, similar to No. 357	1 25
361a.*	" " Drachmann's, curved to right, sharp or blunt point	each 1 25
361b.	" " " " " " left	" 1 25
361c.*	" " " " " " " " " "	" 1 25
361d.*	" " " " " " " " " "	" 1 25
362.*	Forceps, Kerr's, straight, with three needles	3 00
362a.	" " " " curved sideways, with three needles	4 00
363.	Needles, extra, for Kerr's Forceps	each 20

All instruments illustrated are designated by a *.

General Operating Instruments.



373.*	Femoral Artery Clamp, List Thomas' (non-serrated forceps)	\$5.00
376.*	Ven Dissecting Forceps, Mayo's, for separating varicose veins from the surrounding tissue preparatory to removing them under the skin	2.50
377.*	Dissector, Mayo's, ring-shaped, used for the same operation as the forceps	1.50
378.*	Extractor, W. W. Babcock's, acorn shaped tips sizes 15 and 24 French, 26 inches long	.75
378a.*	Extractor, W. W. Babcock's, acorn shaped tips sizes 15 and 24 French, 26 inches long, jointed	1.00
379.*	Tensioning Forceps, Hackbush's, to fasten cloths around parts to be operated on	per dozen, \$5.00; each .35

"It is absolutely necessary that cloths are fastened around the part to be operated on, to carry through the asepsis as thoroughly as possible. This can only be done properly by fixing the cloths on the skin in order to prevent displacing during the operation. The method employed heretofore of sewing directly to the skin, or of fastening the cloths to the skin with a clamp forceps will be superseded by the new forceps. The former forceps method caused a very disagreeable constriction. In employing the other method it was necessary to make several stitches and it had the disadvantage that during the operation the cloths could not be quickly removed to change the field, as it is necessary very often in laparotomy operations. In this respect these new forceps fulfill their purpose completely. Although this instrument cannot be used without causing any traumatism to the tissues, the principal advantage is that it can be applied and removed very easily and quickly."

380.	Appendix Apert, S. J. Waterworth's, rubber dam, 4 in. square, with re-inforced hole in center	per doz., \$5.00; each .35
------	---	----------------------------

Amputating and General Operating Instruments.

KNIVES FOR MAJOR AND MINOR OPERATIONS.



449



441



442



443



447



449



455



457



459



460

All our knives are hand forged from the most celebrated cast steel, and carefully tempered, and have hollow German silver handles, nickel plated.

439.*	Amputating Knife, Liston's, long	\$1.05
437.	" " " " " " " " " " " "	2.75
432.*	" " " " " " " " " " " "	2.05
434.*	" " " " " " " " " " " "	1.50
435.*	" " " " " " " " " " " "	2.00
436.	" " " " " " " " " " " "	2.75
438.*	Knives and Saw, Gossard's, serrated handle	7.50
439.	Knife, Parker's, with handle to unscrew	4.50
441.*	Cartilage Knife, stout	2.50
442.*	Knife, Neil's, short stout blade	1.75
443.*	Scalpel	1.75
444.	Tenotome	1.55
447.*	Transfusing Pin, Wyeth's, steel 10, 12 and 14 inches long	each 1.00
449.*	Tenotomes, Allen	each, \$1.00; set of 3 in case 4.00

All instruments illustrated are designated by a *

Amputating and General Operating Instruments.

KNIVES FOR MAJOR AND MINOR OPERATIONS.



Minor Operating Scalpels.

423.*	Deaver's, thin handles, all steel, one size	each \$1.00	dozen \$12.00
424.	Gutach's, concaved handles, all steel, four sizes	" .75	" 7.50
425.*	Mayo's, grooved hollow handles, four sizes	" 1.50	" 15.00
426.*	Collin's, smooth	" 1.50	" 15.00
427.*	Lentz's Special, smooth hollow handles, four sizes	" 1.50	" 15.00
428.	Ferguson's, smooth hollow handles		each 1.00
429.*	Russell's, curved handles		" 1.25
433.	Pentagonal Incision Knives, Reynek Park's, three sizes, 1 1/2, 2, 2 1/2 inch blades		" 2.00

All our knives are hand-forged from the most celebrated English steel and carefully tempered in our factory under our supervision.

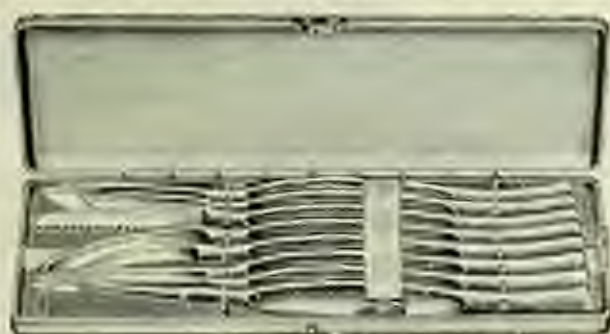
Operating Knives numbers 423 and 428 can be supplied in assorted blades, as per Illustrations on page 27.

Scalpels made in four sizes are numbered, indicating size of cutting edge, viz: No. 1, 1 inch; No. 2, 1 1/2 inch; No. 3, 2 inch; No. 4, 2 1/2 inch blade.

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

OPERATING KNIVES AND CASES.



AD 400-450



456



422

Set of Minor Operating Knives in Asbestos Metal Cases with Removable Racks

448*	Set of 6, Style A, hollow metal handles	\$9.75
445	Set of 6, Style II, concave steel handles	10.00
446	Set of 6, Mayo's, grooved hollow handles	9.25
448*	Set of 8, Style A, hollow metal handles	11.75
471	Set of 12, Style A, hollow metal handles	35.50
472*	Set of 6, Lester's Special or Collin's pattern	12.75

Sets of Minor Operating Knives in Metal Cases with Fixed Wacks.

473.	Set of 6, John B. Draven's	58.50
474.	Set of 6, also one Amputating Knife and one Carling Knife, in original storage-lid case	16.50

475	Master Operating Knife Case, metal, hinged lid, empty, for 6 or 8 knives	\$4.50
475a	" "	
475b	" "	2.50
475c	" "	

We furnish this case to hold 2, 4 or 6 knives; the racks are adjustable, will therefore fit almost any style of minor operating knives. Case for 2 knives, \$60.; for 4 knives, \$60.; for 6 knives

477-	Wood Case, with hinged lid, plain, for 6 knives	25
478-	" " " " telescopic lid, plain, for 12 knives	19

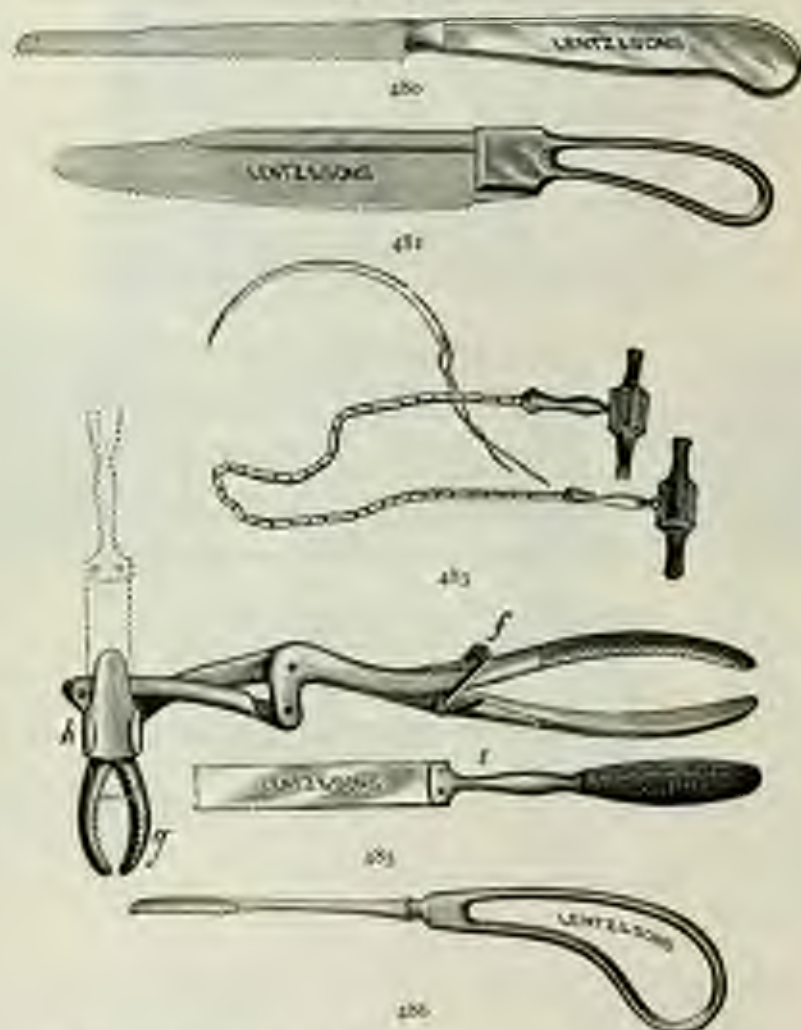
These cases are handy to store extra supply of knives, also to send knives to be ground.

479. Aluminum Racks for holding knives in the institution called it in silver trays, to protect the edges; 50 hold 8 knives, 900; 12 knives, \$1.00; 15 knives.

All instruments illustrated are designed by a 4

Amputating and General Operating Instruments.

BONE SAWS.



480.*	Saw, Metacarpal, Langenbeck's	\$ 1.50
481.*	" " " " " " " " " " " "	1.50
482.	" " " " " " " " " " " "	1.50
483.*	Extraction Chain, Jeffrey's, with rotating metal handles	6.00
484.	" " " " " " " " " " " "	1.50
485.*	" " " " " " " " " " " "	1.50
486.*	" " " " " " " " " " " "	13.50
487.	" " " " " " " " " " " "	3.35
488.	" " " " " " " " " " " "	5.00
489.	" " " " " " " " " " " "	5.00
490.	" " " " " " " " " " " "	2.12
491.	" " " " " " " " " " " "	3.50

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

ROSE SAWS.



900.*	Saw, Satterlee's, separable. Made 8½ inches long	\$ 3.50
901.*	" Lantz's, separable handle and back, Made 7½ inches long	3.00
902.*	" Bow, small with automatic lever, one blade	4.00
903	" " " " " two blades, 14½ inches long	6.50
904.*	" Resection, Collin's separable, three blades, 12 "	9.00
905.	" Bow, Gutsch's, 9 inches long, one blade	5.00

All currents are illustrated are designated by $\alpha = 1$.

Amputating and General Operating Instruments.

TOURNIQUETS.



514



507



515



512



509



518-519



516-517



513

506.*	Tourniquet, Schupp's, 35 inches long, thick tubular rubber, with knot in center and	\$1 50
512.*	" U. S. A. Field	1 00
513.*	" Pein's	1 75
514.*	" Esmarch's Hard Rubber Compress, with elastic cord	50
515.*	" for wrist, steel nickel-plated, with adjustable hard rubber rolls	2 00
516.*	" Esmarch's Flat Rubber, 1 in. x 1/2 ft. long, with chain and buckle	1 50
517.*	" 1 1/2 in. x 1/2 ft.	2 50
518.*	Bandage, Esmarch's, Pure Gum, extra heavy, 2 1/2 inches wide, 4 yards long	3 00
519.*	" 2 1/2 " " "	1 75
520.*	" rubber weight, 2 1/2 inches wide, 4 yards long	2 00

All instruments illustrated are designated by A.

Amputating and General Operating Instruments. BONE CUTTING FORCEPS.



535



534



533



531



537



534

531 ^a	Bone Cutting Forceps, straight, aseptic, 7½ in., \$7.75; 8½ in.	\$3.00
532 ^a	— — — — — curved on dial, aseptic	2.00
533 ^a	— — — — — angular, aseptic	2.00
534 ^a	— — — — — straight, small, double joint, plain	2.25
535 ^a	— — — — — Satterlee's aseptic	2.00
536	— — — — — Velpeau's, auxiliary	4.00
537	— — — — — Lister's, straight, with spring, 11 in.	5.00
538	— — — — — — — — — curved on dial, with spring, 12 in.	5.00
539	— — — — — Mayo's, angular, with spring, 12 in.	5.00
540	— — — — — J. C. Biddle's, cutting on side, one handle with hook, the straight handle is ground across and may be used as a rasp; with spring, 7 in.	4.25

Amputating and General Operating Instruments.

BONE CUTTING FORCEPS, RIB SHEARS, SAWS.



542 543



544



532



403

542	Bone Cutting Forceps, Horsley's	curved on flat	\$3.75
543	"	straight, fine strong prismatic points	4.00
544	"	crank bend, fine strong prismatic points	4.00
544	"	crank bend, fine strong prismatic points large	5.50
532	Bone Shears, Glick's, large illustration on page 33		3.75
506	"	Shoemaker's; can also be used as a raspator for the corneal periotomy	12.00
507	"	Charnier's, toothed edge	straight, \$3.75; curved 4.00
508	"	Hunter's	\$4.50
402	Resection Saw, Dwyer's, with guard and graduation, for shaft work		6.00
403	Resection Saw, Wurster's, serrated, two widths of blades, 12 inch		10.00
404	"	Mattison's	three " " 12 " 9.00
405	Bow Saw, National Guard of Penna. pattern, one blade		3.00

All instruments illustrated are designated by a *

Amputating and General Operating Instruments.

BONE-HOLDING AND SEQUESTERUM FORCEPS.



545



547



545



550



551



555

545.	Bone-Holding Forceps, Hamilton's	\$ 3.25
545. ^a	" " " " Perugini's	4.00
547. ^a	" " " " Perugini's Bone-Jaw	3.00
545. ^a	" " " " Langenbeck's	3.00
549.	Sequesterum " Gross', straight, with spring	2.75
550. ^a	" " " " " curved, " "	2.75
551.	" " " " " straight, no spring	2.40
552.	" " " " " curved, " "	2.40
553. ^a	" " " " Van Dusen's	2.50
554.	" " " " Perugini's	2.25
555. ^a	Nail-Extracting Forceps, Post's	2.25

All Forceps have aseptic joints and corrugated handles.

All instruments illustrated are designated by a ^a.

Amputating and General Operating Instruments.

BONE GOUGING OR RONGEUR FORCEPS.



537.*	Rongeur or Gouging Forceps,	M. M. Franklin's, two sizes of 1884	each \$12.00
538.	"	"	"
537.*	"	Albert's, mastoid, one size of 1884	10.00
538.*	"	Boyer's, cranial	4.00
538.*	"	Lamontagne's, cranial	4.50
539.*	"	Stille's,	4.00
539A.	"	Michien's,	5.00
539A.	"	Ceccarelli's, (Bernay's groover)	4.50
539.	"	Hoffmann's, angular	3.75
539A.*	"	Whiting's	3.50

*See also Mastoid Rongeurs.

All instruments illustrated are designated by a ?

Amputating and General Operating Instruments.

BONE CHISELS, GOUGES, MALLETS.



We polish the nickel off the blades of our chisels, gouges and drills, as the plating would peel off after the instruments have been used a few times, and particles of the plating might be left in the wound, forming septic matter.

570.	Bone Chisel, small and narrow	\$0.50
571.	" Gouge, " "	.75
572.	" Chisel, medium or large	1.25
573.	" Gouge, " "	1.40
574.	" " curved, for use with hand or mallet	1.00
575.	" Chisel, " "	1.75
576.	" Gouge, " "	1.00
577.	" " Seydewitz's	1.75
578.	" " Macswen's	2.75
579.	" Chisel, Linsell's	1.00
580.	" Gouge and Levator, Darby's set	5.00
581.	" " Macswen's, 3 sizes	each 2.00
582.	Osteotome, Macswen's, 3 sizes	2.75
583.	Mallet, lead filled, non-rebounding	1.00
584.	" " ewhite	1.00
585.	" " hardwood, aseptic	small, 75c; medium, 85c; large, 1.00
586.	Resection Knife, Langerbeck's, various forms	each 1.00
587.	Subcutaneous Knife, Adams'	1.25

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

BONE CHISELS, GOUGES, MALLETS.

ELEVATORS

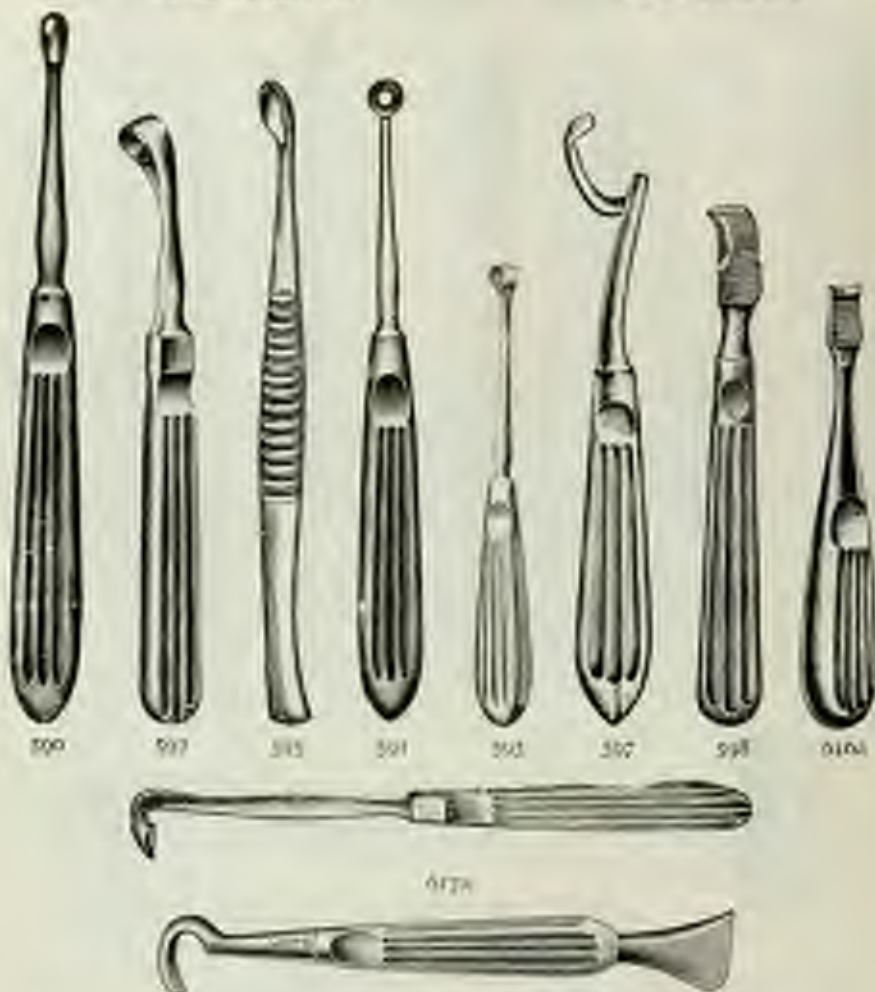


962	Bone Chisel.	Doyen's, for enlarging the cranial section	each	\$2 50
962a	"	Chiquaud's, for cranial resection, three widths	each	2 25
962b	"	Borchardt's, for cranial	"	1 75
962c	"	Whiting's, mastoid, four sizes	each	2 00
962d	"	Gutsch's	"	1 00
962e	"	Hajek's, mastoid, four sizes, 3, 6, 9, 12 mm wide	each	2 10
962f	"	" 3, 6, 9, 12 mm wide	"	2 05
962a	Gouge.	Borchardt's, for cranial	"	2 25
962b	"	Whiting's, mastoid, four sizes	each	2 25
962c	"	Doyen's, for perforating the cranium	"	3 00
962d	"	Gutsch's	"	2 25
962e	Combination Set, Bone Chisel, Gouge and Mallet, Benson's			5 50
962f	Mallet, lead filled, non-rebounding	medium, \$1 75; large		2 00
962b	"	boxwood, brass bound ends	medium, \$1 00; large	1 25
960	Elevator, S. MacCuen Smith's Dry Dissector.	6 1/2-inch, 7 1/2-inch		1 00
960a	"	Cripe's	"	75
960b	"	Watson Cheyne's	"	1 00
960c	"	Adams' Double-end Dissector	"	2 25
960d	"	John C. DuComa's	"	2 50
960e	"	Mass. General Hospital pattern, with hollow handle	"	1 50
960f	"	Langenbeck's, two widths	each	1 50

All instruments illustrated are designed by a *

Amputating and General Operating Instruments.

BONE CURETTES. RASPATORIES.



590.*	Bone Curette.	Whitling's, sharp, six sizes	each	\$1.75
591.*	"	Lier's, sharp, fenestrated, three sizes	"	1.75
592.*	"	Parabell's, sharp, curved	"	3.00
593.*	"	Do., sharp on both ends	"	2.25
594.	"	Simon's Swiss Curette, double end	"	1.50
595.	"	Volkman's, oral, irrigating, four sizes	each	2.75
596.*	"	" double end, 3 inch, for pocket case	"	.75
597.*	"	Ferguson's, combined with periosteotome	"	1.75
598.*	"	Double-ended, light, 4½ in., 7½ in., 6 in., 8 in., 8 in.	"	1.30
599.*	Raspatory	and Knife, W. W. Balcock's, for costal periosteum	"	4.00
600.*	"	Doyen's, for costal periosteum	"	2.25
601.*	"	angular or double curved	each	2.75
602.*	"	Parabell's, curved	"	1.60
603.	"	" straight	"	1.60
604.*	"	Ollier's, round tooth	"	1.50
605.*	"	Mathien's, straight, concave or convex edge	each	1.60
606.*	"	Langenbeck's, hook shaped	"	1.50

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

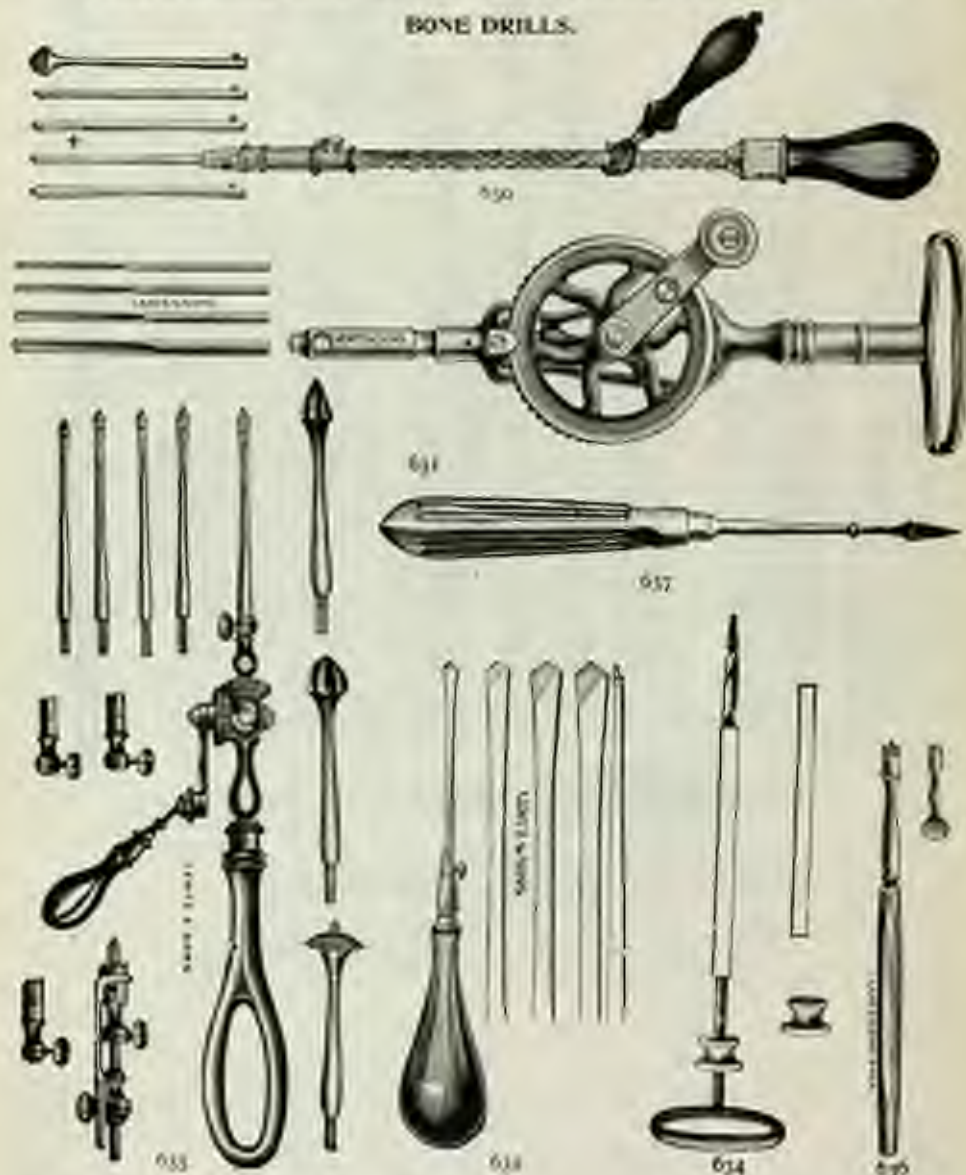


601.	Bone Knife, Marshall's olive head, hollow metal handle	\$1.75
601.*	" " " round " " "	1.75
603.*	" " " " " " " " " " " "	each 1.50
604.	" " " " " " " " " " " "	1.50
605.*	" " " " " " " " " " " "	1.50
606.*	" " " " " " " " " " " "	1.75
607.*	" " " " " " " " " " " "	1.50
608.*	" " " " " " " " " " " "	6 inch, \$1.50; 8 inch 1.75
609.*	" " " " " " " " " " " "	8 " \$1.35; 8 inch 1.50
612.*	" " " " " " " " " " " "	3.50
613.*	" " " " " " " " " " " "	1.25
614.*	" " " " " " " " " " " "	1.50
615.	" " " " " " " " " " " "	1.50
616.	" " " " " " " " " " " "	each 1.50
617.	" " " " " " " " " " " "	1.50
618.*	" " " " " " " " " " " "	small, too; large 1.50
619.	" " " " " " " " " " " "	each 1.50
620.	" " " " " " " " " " " "	4.50
621.*	" " " " " " " " " " " "	1.25
622.*	" " " " " " " " " " " "	1.25

All instruments illustrated are designated by a *.

Amputating and General Operating Instruments.

BONE DRILLS.

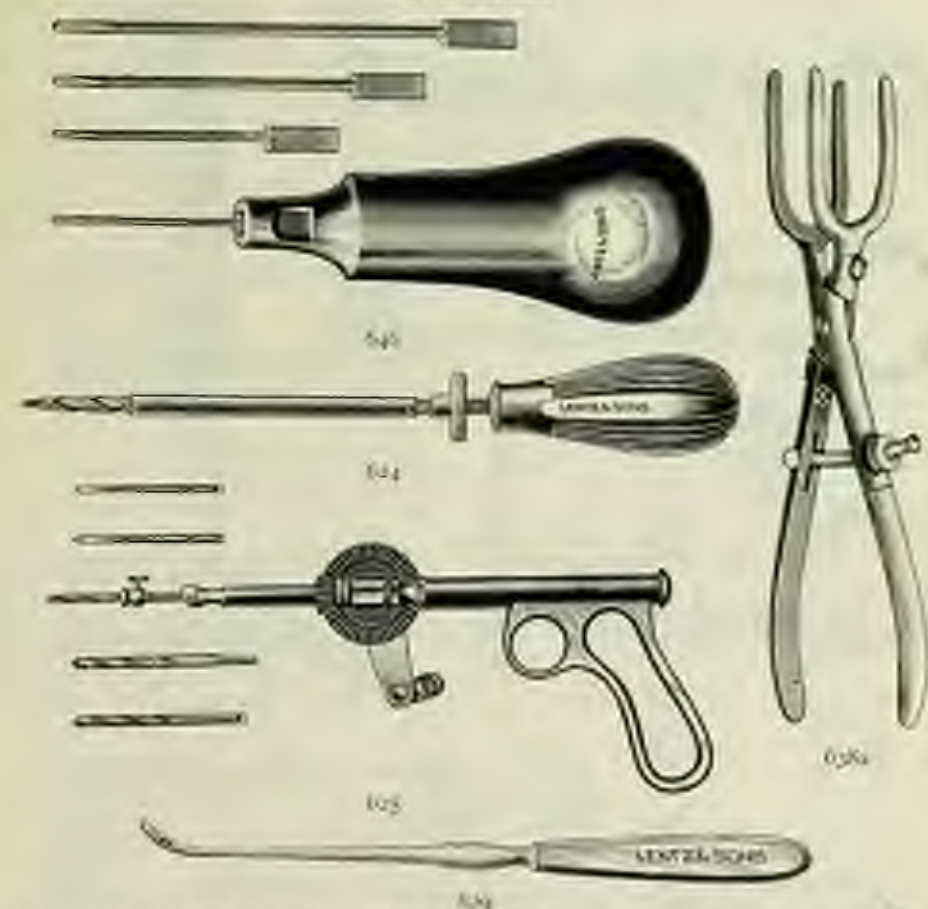


630.*	Bone Drills, Hamilton's set of 6 drills	1 3 00
631.*	" " Lentz's improved asperille, with set of 8 drills	7 00
632.*	" " Brainard's set of three, metal handle	2 50
633.	" " " " " " " " " " " "	3 00
634.*	" " Gaillard's, for ununited fractures	1 50
635.*	" " " " " " " " " " " "	22 50
636.*	" " " " " " " " " " " "	2 50
637.*	" " " " " " " " " " " "	11 50

*All instruments illustrated are designated by a *.*

Amputating and General Operating Instruments.

BONE DRILLS.

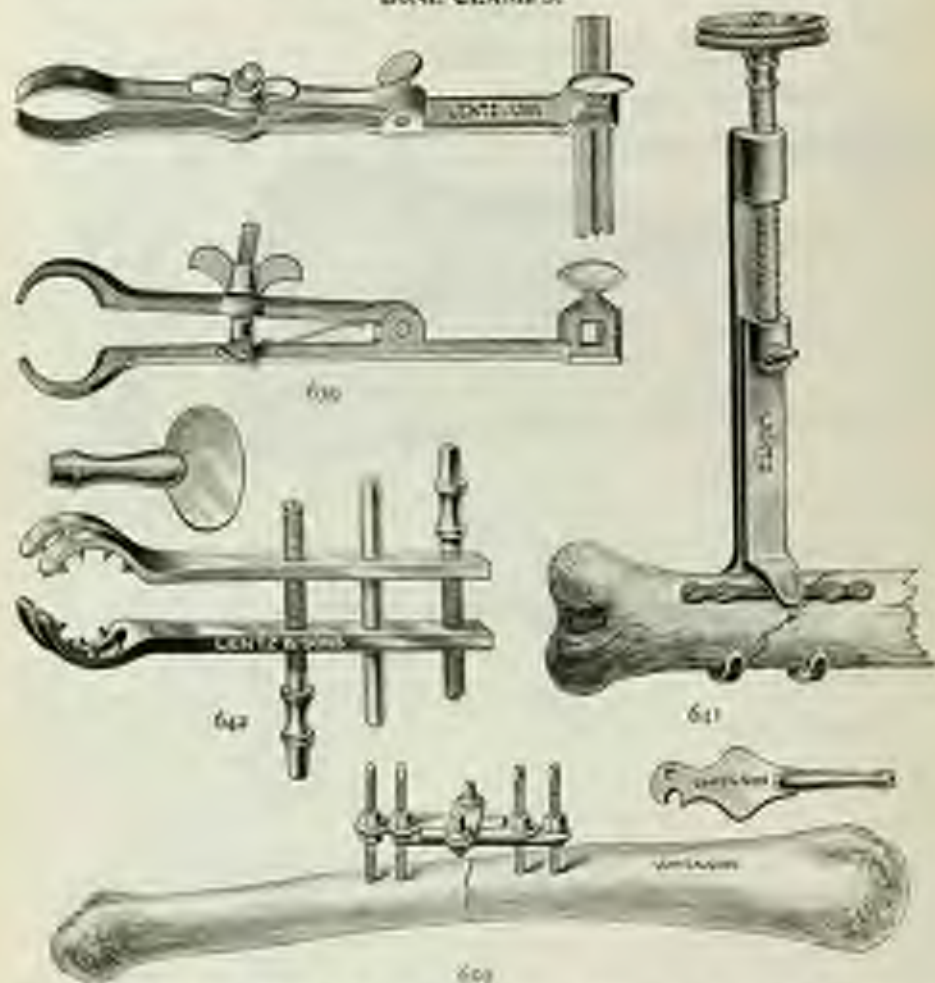


645.	Bone Drills, Wyeth's, set of six, with hollow metal handle	\$1.50
646.*	" " J. B. Roberts', set of four, with large hollow metal handle	4.00
647.	" " " " " without handle each, 50¢ dozen	5.00
648.	" " Percussor and Hammer, for driving and extracting Roberts' drills	1.25
649.	" " large, 11 1/2 inches long, with six drills	4.00
650.*	" " Wilson's improved Gaillard's	1.00
651.*	" " Richer's, set of five	5.50
652.	" " Freeman's, by auction	2.00
653.	" " only, set of six, for No. 650, Hamilton's, and No. 651	.75
654.	" " " " " set of eight, for No. 651, Larin's	1.25
655b.	" " " " " set of four, for Nos. 652 and 653, Bennett's	1.25
656.	" " " " " set of five, for No. 653, Richer's	1.75
657.	" " Excavators, Doyen's, set of three, with one hook	22.50
658.*	Needle, Barker's, full curved, for fracture of patella	1.50
659.	Patella Hooks, Lewis' modification of Malgaigne's (see Fig. 7037)	4.50
658a.*	Bone Plate Holder, Janin's	7.50

All instruments illustrated are designated by a %.

Amputating and General Operating Instruments.

BONE CLAMPS.



639.* Bone Holder, Edward Martin's, steel; two clamps on an adjustable bar for holding bones in apposition while attaching plates. \$16 00

640. Bone Holder, Edward Martin's, steel; two clamps, with handles instead of adjustable bar. 16 00

641.* Bone Holder and Bone Plate Holder, combined. J. B. Lowman's. 7 50
It holds the fracture in closest apposition and, at the same time, holds firmly the plate awaiting the introduction of the screws. The instrument possesses the additional advantage of being easily applied, or destroyed, but very little of the periosteum, and of disassembling but little the surrounding tissues.

642.* Bone Clamps, J. C. Biddle's, steel, for un-united fractures; five sizes; intended to remain in position until union has been established.

No. 1, extreme width of fork	1 1/2 in.	inside diameter	1/4 in.	5 00
" 2 "	"	"	3/8 "	5 50
" 3 "	"	"	1 "	6 00
" 4 "	"	"	1 1/4 "	7 00
" 5 "	"	"	1 3/4 "	7 50

643.* Bone Clamps, Parkhill's, silver-rod, three sizes. each 5 00

The smallest size is for use in the bones of the forearm, wrist and clavicle. The medium size is adapted for the tibia, humerus and pelvis. The large size for all bones of the femur, except the neck.

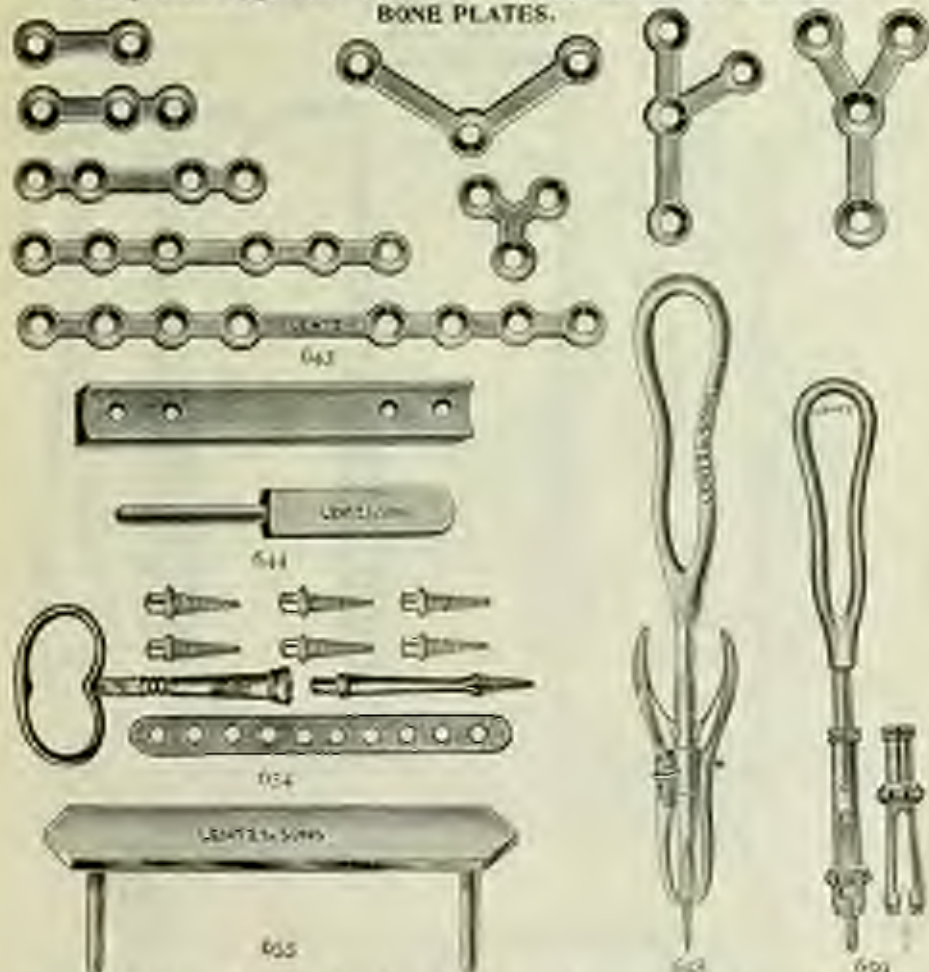
644. Bone Nails, steel, various sizes. each 50 30

645. Bone Pins, ivory. 30

646. Silver Wire, heavy. per yard, No. 14, \$2 25; No. 16, \$1 50; No. 18, 1 00

Amputating and General Surgical Instruments.

BONE PLATES.



- 643.* Bone Plates, Lane's (London), steel, complete set of 27 plates of the various shapes and sizes, including 3 dozen silver-plated screws. \$18.00
 Separate Plates: straight, 25 to 38 mm., 50c; 40 to 78 mm., 50c; 98 to 135 mm., 75c; elbow, triangle, signal or Y shaped, each \$1.25.
649. Bone Plates, Halsted's, silver, with screws; $\frac{1}{2}$ x 2 in., \$1.50; $\frac{1}{2}$ x 2 1/2 in., \$1.75; $\frac{1}{2}$ x 3 in., \$2.00.
- 644.* " " W. L. Estes', silver-rod, small size, with 4 pegs 1.50
 large 2.00
- 654.* " " Sick's, set of ivory plate, steel key and 6 ivory screws 1.25
 " " metal " " 6 metal " 1.75
 " " silver " " 6 " " 7.00
- 655.* Staple, J. B. Roberts', steel, four sizes, distance from rim to jaw, 9-16 in., 1-16 in., 1 1/2 in., 2 in., each 1.00
656. Screws, silver plated, $\frac{1}{8}$ to $\frac{3}{8}$ in., per doz. 50c; 1 to 1 1/2 in., per doz. 75
657. " silver-rod, non-corrosive, per doz. 1.00
- 658.* Screw Holder and Driver combined, Martin's, the clamps hold the screw while driving it into the bone 0.00
- 659.* Screw Holder and Driver combined, Lintz's, adjustable, the clamp may be removed from the driver after the screw has taken hold, thus permitting the assistant to insert another screw while the operator completes the driving of the previous one 1.50
660. Screw Driver, metal handle, plain 75
- Bone Plates, Staples, Clamps, Screws, made of magnesium—quotations on request.

Amputating and General Operating Instruments.

RETRACTORS.

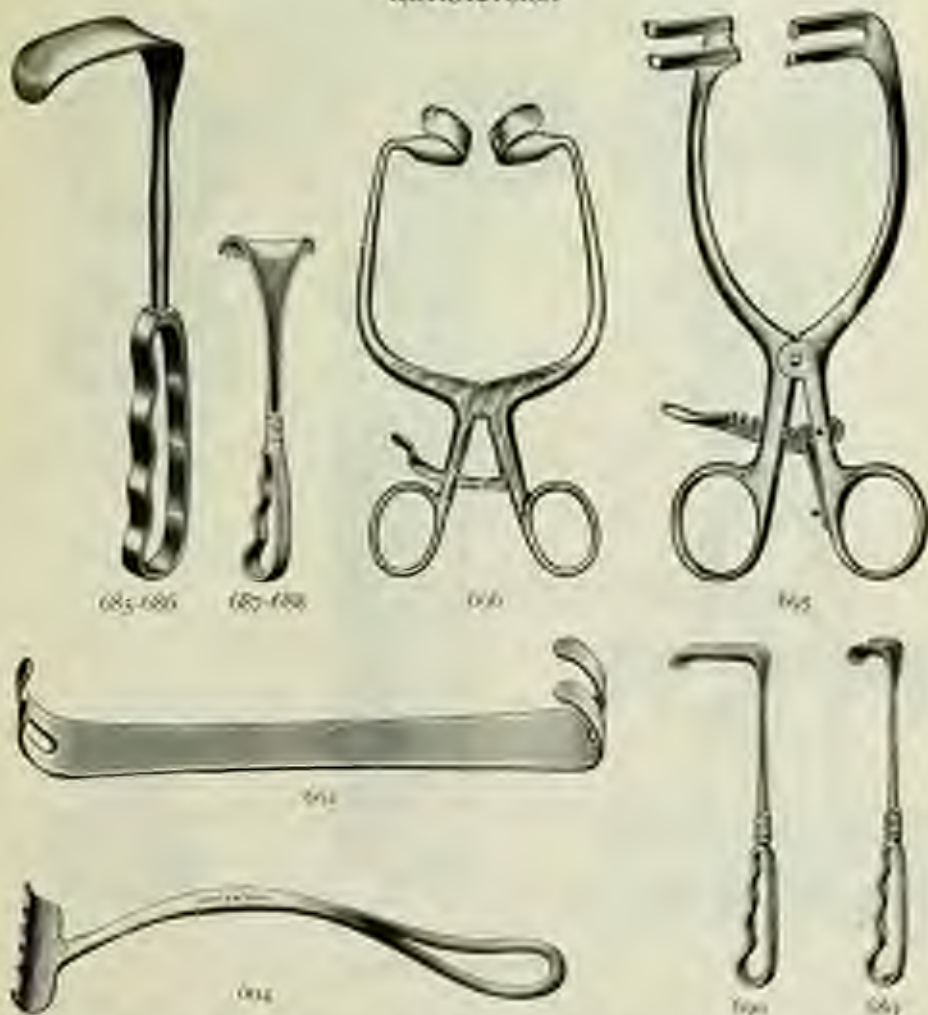


660*	Retractor, Mon's, with hook handles, full size	per pair	\$0.75
661*	Parker's full size	per pair	.75
662*	Robt's steel, small, 5 inch wide	each	1.35
663	medium, 6 1/2 inch wide		1.50
664	large, 7 1/2		1.75
665*	Langerhede's, steel, hand, metal handles		1.50
666*	sharp		1.50
667*	Vollmann's, sharp or blunt, four prongs		1.50
668	blunt		1.35
669	sharp		1.35
670*	Bipratt's, four or three prongs		1.50
671*	John B. Deaver's steel, small	per pair	1.00
672*	large		1.25
673*	extra large, one inch blade		2.00
674	two		3.00
675	extra, six inch		2.50
676	blade for deep pelvic incisions		2.50

All instruments illustrated are furnished by a *

Amputating and General Operating Instruments.

RETRACTORS.

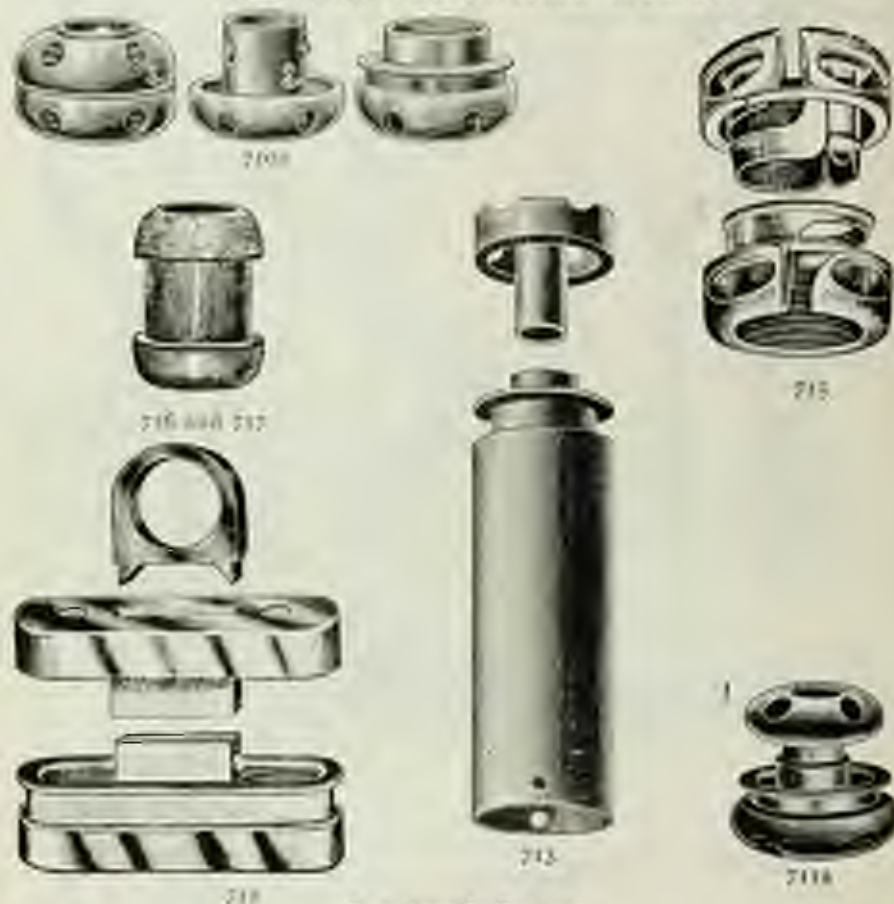


685.*	Retractors, Kelly's, blades $1\frac{1}{2}$ and 2 inches wide	each	\$1.50
686.*	" " blades $2\frac{1}{2}$ and 3	"	1.75
687.*	" " Halstead's, with 4, 6 or 8 teeth	"	1.00
688.*	" " " 8, 10 or 12 teeth	"	1.25
689.*	" " Richardson's, blade 2 inches long, $\frac{1}{2}$ inch wide	"	1.50
690.*	" " " $2\frac{1}{2}$, $3\frac{1}{2}$ and $4\frac{1}{2}$ inches wide	"	1.75
691.*	" " Collin's, set of two, one resting within the other, per pair	"	1.20
692.*	" " Green's, two sizes	each	1.00
693.*	" " Ollier's, two-prong, light	"	1.75
694.*	" " McBurney's, steel, for use in skin grafting	"	2.50
695.*	" " Feinick's, large	"	1.75
696.*	" " Mayo-Adams', self-retaining, short, for appendix	"	4.50
697.*	" " Mayo-Simpson's, self-retaining, large	"	7.50
698.*	" " Collin-Mayo-Simpson's, self-retaining, large, three blades	"	9.00
699.*	" " Scott's, for holding back the flaps during amputation	"	3.00
	" " Gosper's, for holding back the flaps during amputation, set of two	"	7.00

All instruments illustrated are designated by a *.

General Operating Instruments.

FOR GASTRIC AND INTESTINAL SURGERY.



Anastomosis Buttons.

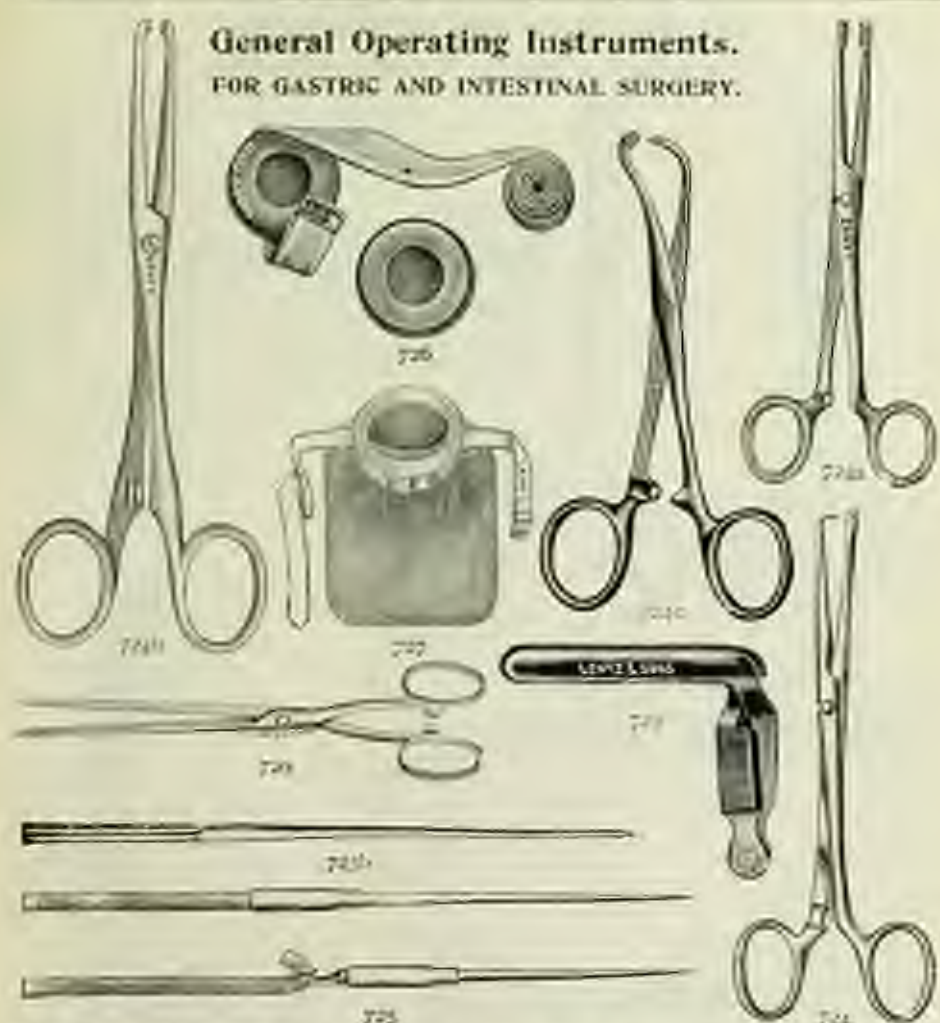
710.	Murphy's, original, four sizes	per set, \$4.50; each \$1.25
710a.*	" button, with large button, four sizes	per set, \$6.50; each 2.25
711.	" extra large, stomach diameter	2.50
711a.*	Gastro-intestinal Button, one end small	2.50
712.*	" " " " oval, new pattern	5.00
713.*	Cylindrical Drainage Tube Button	2.50
714.	E. O'Neill Kane's Button, metal, drawn together with braided silk; three sizes	each 1.25
715.*	Jacobson-Lumière's Gastro-intestinal Button; three sizes	" 3.75
716.*	Haye-Robson's Bone Button small, 75c.; medium, \$1.00; large	" 1.25
717.*	" " " " extra large, for pyloroplasty	" 1.50
718.	Harrington's Segmented Ring, three sizes	" 1.50

Anastomosis Buttons Made of Magnesium—Inquiries Invited.

All instruments (Lentz) are designated by a *

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

General Operating Instruments. FOR GASTRIC AND INTESTINAL SURGERY.



- | | | |
|-------|---|--------|
| 724* | Intestinal Forceps, Allis', 6 inches, hook and loop ends | \$2.00 |
| 724a* | " " " " 6 " teeth at sides | 2.75 |
| 724b* | " " " " 6 " teeth at ends | 2.00 |
| 724c* | " " " " Smith's marginal | 1.75 |
| 724d* | " " " " Barrett's, with rubber cushioned jaws $6\frac{1}{4}$ in., \$2.00; $8\frac{1}{4}$ in. | 2.75 |
| 724f. | " " " " Chas. G. Child's, with rubber cushioned jaws | 2.25 |
| 725* | Invagination Forceps, Laphar's | 1.75 |
| 726* | Clamp Forceps, Murphy's, self-locking | 1.25 |
| 727* | " " " " Watson's, rubber covered blades, ring handles | 2.75 |
| 728* | " " " " Knapp's, self-locking | 1.25 |
| 729* | Appendix Tacker, Mayo's mod. of Bokitt's, 6 inches long | .50 |
| 730* | Forceps for introducing intestinal button, Murphy's original | 2.00 |
| 731* | Cholecystotomy Hammer, Kelly's, used in nature of the common tile hammer | 1.00 |
| 732* | " " " " Habed's, six sizes, each | 1.00 |
| 733* | McGraw's Needles for rubber ligatures | |
| | No. 3 French scale, inc.; No. 5, inc.; No. 6, 7, 8; No. 12 | 1.25 |
| 734* | Ligature, elastic, solid rubber cord, per yard small, 15c.; med., 20c.; large, | .75 |
| 735* | Colostomy Pad for artificial anus, complete, with belt | 3.50 |
| | A circular pad with inflated ring edge, giving a cup-shaped cavity $\frac{1}{2}$ inch deep and 4 inches in diameter. Applied over an artificial anus or a fistula it will comfortably and snugly cover same, effectively preventing escape of any discharges. | |
| 736* | Receptacle for artificial anus, Brack's; aluminum ring, pure gum bag | 3.00 |

General Operating Instruments. FOR GASTRIC AND INTESTINAL SURGERY.



732a.

733.



737.



738.



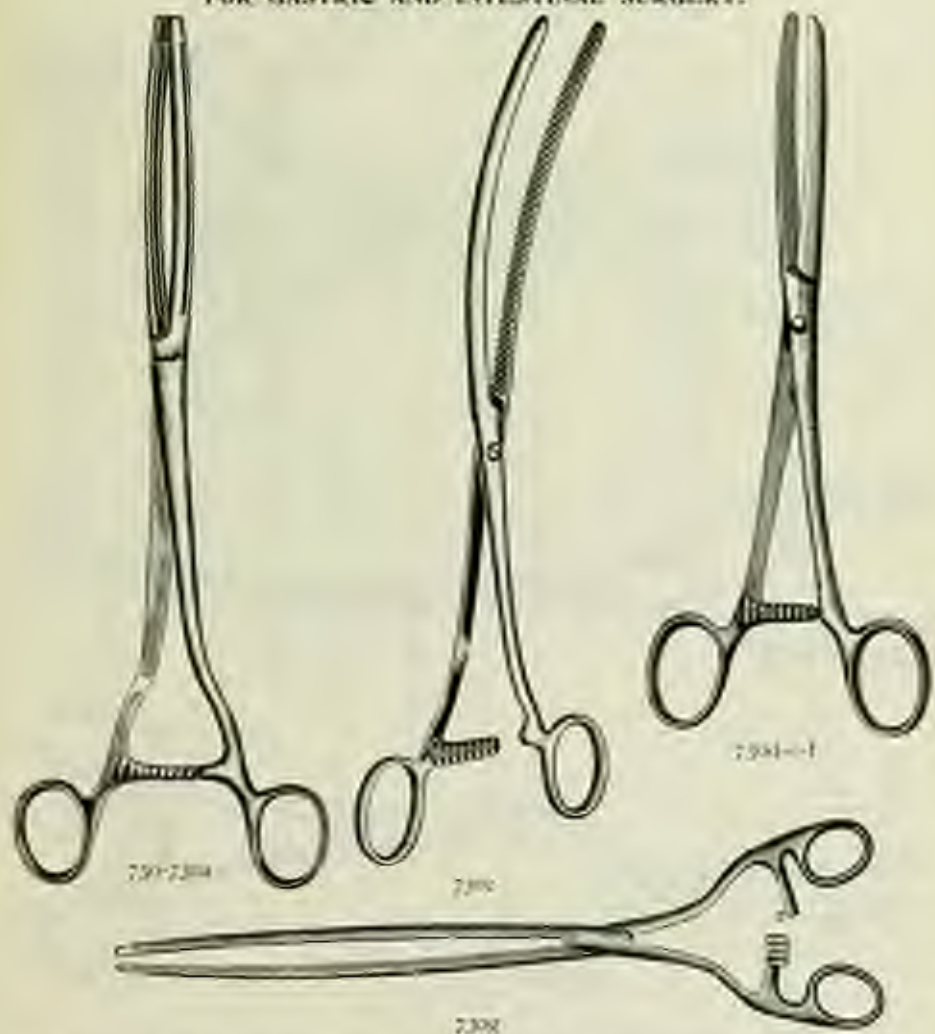
739.

737 ^a	Intestinal Anastomosis Forceps, (Hilar's)	set of two	\$5.00
737 ^b	" " " " " " " "	" "	0.50
737 ^c	" " " " " " " "	each	4.50
735 ^a	" " " " " " " "	" "	2.50
735 ^b	" " " " " " " "	each, one side	2.50
736 ^a	" " " " " " " "	Deaver's three-bladed	0.00
736 ^b	" " " " " " " "	Lee's	8.00
736 ^c	" " " " " " " "	Clamp, Wolff's, ivory faced	8.25
738 ^a	Intestinal Clamp Forceps, Kocher's, longitudinal serrations, 9 1/2 inch		2.50
738 ^b	" " " " " " " "	Doyen's, for gastrotomy, curved, 10 1/2 inch	1.00
738 ^c	" " " " " " " "	Doyen's, for gastrotomy, straight, with knife on side, 8 1/2 inch	5.00

All instruments illustrated are designated by a *

General Operating Instruments.

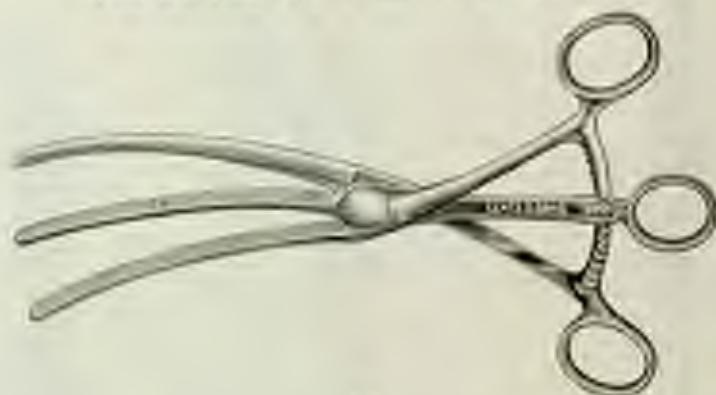
FOR GASTRIC AND INTESTINAL SURGERY.



7307	Stomach Clamp-Percuss, Moynihan's, 11 inches, for gastroenterostomy	\$3.25
7308	" " " " latest, 12 inches, for gastroenterostomy	5.00
7309	" " " " Mayo-Moynihan's, curved	6.50
7309-1	" " " " Mayo-Robson's, curved, 10 inches, for gastroenterostomy	3.00
7308	" " " " Soudler's, child size, 9 inches, for gastroenterostomy	3.50
7308-1	" " " " adult size, 9 1/2 inches, for gastroenterostomy	3.50
7308-2	" " " " large, 13 inches, for gastrectomy	5.00
7308-3	" " " " 13 inches, with inverted ring handles, for gastroenterostomy	5.50
7308-4	" " " " 14 inches, straight, with screw clamp end, for gastrectomy	6.00
7308-5	" " " " 14 inches, curved, with screw clamp end, for gastrectomy	6.50

All instruments illustrated are designated by a *.

General Operating Instruments. FOR GASTRIC AND INTESTINAL SURGERY.



731



731c



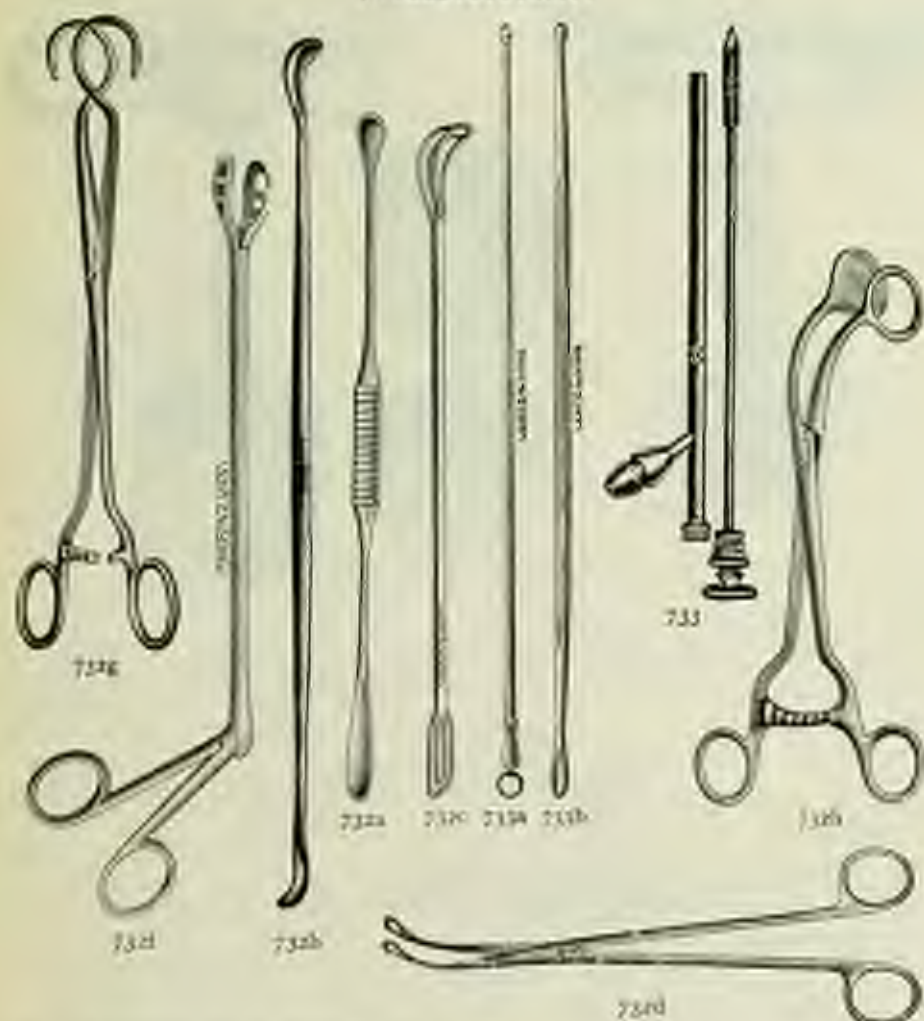
731d

731.*	Stomach Clamp Forceps,	Lisart's, 9 1/2 inches, for gastroenterostomy	\$10 00
731a.	"	" M. M. Franklin-Lisart's,	
		10 1/2 inches, for gastroenterostomy	11 00
731b.	"	" Rosacek's, 13 " "	12 00
731c.*	"	" Kocher's, 14 1/2 " "	6 00
731f.	"	" Grassl's, pointed ring handles,	
		18 1/2 inches, for gastroenterostomy	8 00
731g.	"	" Novy's, straight, light spring blades,	
		2 1/2 inches, for gastroenterostomy	2 50
731h.	"	" curved, light spring blades,	
		9 inches, for gastroenterostomy	3 75
731d.*	Intestinal	" Bruner's, 10 "	1 00
731e.	"	" McDowell's, 8 1/2 "	1 75

All instruments illustrated are designated by a *

General Operating Instruments.

CHOLECYSTOTOMY.

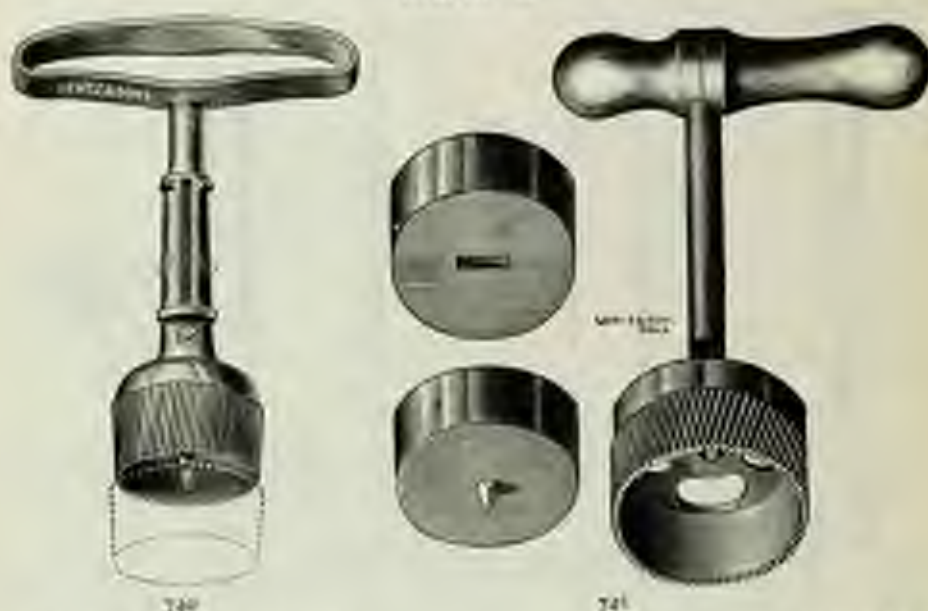


7326	Gall Stone Scoop, Mayo-Robson's, steel	\$2.00
7326*	" " " Mayo's, steel, one end pliable	1.75
7326*	" " " Ferguson's, double ended, six sizes	1.25
7326*	" " " M. M. Franklin's, flexible copper wire, double ended	1.75
7326*	" " Forceps, Blake's	1.75
7326*	" " " Mayo-Blake's	2.25
7326*	" " " Tait's	2.50
7326*	" " " C. U. Collins', for gall duct	3.50
7326*	" " " Schaeffer's	0.00
7326*	Gall Bladder Trocar, Ochsner's, three sizes	each 0.00
7326*	" " " Probe, spiral, Ochsner-Paenger's	1.25
7326*	" " " Scoop and Probe, Mayo's, black tin	1.00
7326	Intestinal Tubes, glass, Mister's, three sizes	each .25
7326	" " " Paul's . . . small, 40c.; med., 60c.; large, . . .	.75
7326	" " " Moynihan's . . . 60c.; . . . 75c.; . . .	.90

All instruments illustrated are designated by a *

General Operating Instruments.

TREPHINES.



740.*	Trephine, Leota's Aseptic.	$\frac{1}{2}$ inch	\$3.50
741	"	$\frac{1}{4}$ "	\$4.45
742	"	$\frac{1}{2}$ "	\$5.50
743	"	set of three, with one handle	10.75

Leota's Aseptic Cranial Trephine

is constructed with three main objects in view. *Firstly*—so that it can be easily and thoroughly cleaned and sterilized. *Secondly*—so that the amount of projection of the central pin can be regulated and fixed rigidly in any point. *Thirdly*—so that the point can be drawn backwards after the serration of the trephine have started cutting properly, and again fixed rigidly and without any danger of the central pin slipping and thus being forced in the skull.

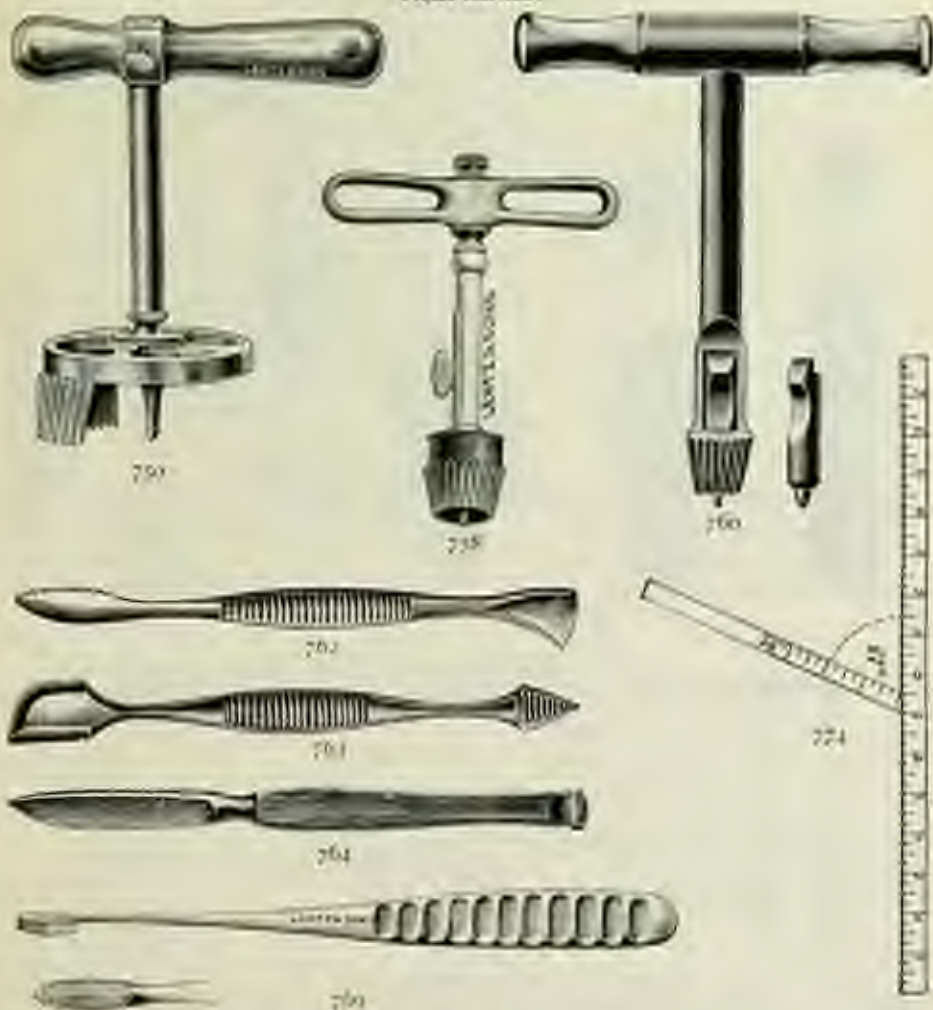
To accomplish the first object, the crown and bifurcal stem and bush are made from a *single piece of steel* and the crown of trephine is smoothed and rounded on the interior; this smoothness being carried to the extreme edge of the teeth. The bush is large enough to easily admit a brush or strip of gauze for cleaning. To meet the second and third essentials of this instrument during operation, the handle, upper stem and point are also made of one piece; they fit accurately and slide in the outer tubular stem; this outer stem is provided with a slot with flattened and serrated face extending nearly to the dome portion of the crown to admit and allow against the thrust screw. *It* (the outer stem) is *threaded* so that when the thrust screw is introduced at any point along the slot, any exertion of the operator tend to fix it still more rigidly. There is no possibility of its slipping.

743	Trephine, Roberts	$\frac{1}{2}$ inch	\$3.50;	$\frac{1}{4}$ inch	\$2.00
746*	"	"	4 No. 10;	"	5.00
747	"	"	"	"	8.00
748	"	3 sets, 1/2 inch, 1 inch and 1 1/2 inch, with one adjustable handle, or a handpiece, compass marking eye.	11.50		

(All instruments described are described by a *)

General Operating Instruments.

TREPHINES.

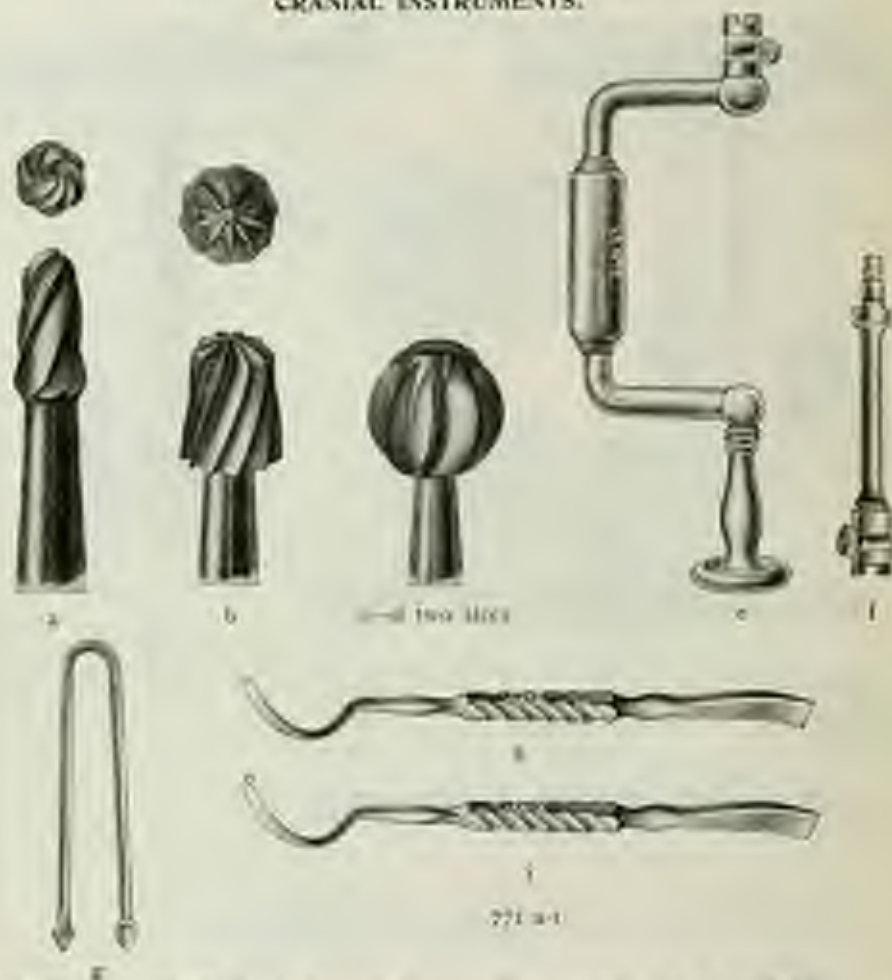


759.*	Trephine, Segner's, J. B. Roberts' latest, two inch	\$5.00
758.*	Gale's ensigned, three sizes	each 2.25
759.	" " large and small, both with one handle	4.00
760.*	DeVilliers' conical drill, with removable centering point	1.50
761.	Buchanan's, small	2.25
762.*	Elevator, plain	.60
763.	" Crile's	.75
764.	" Buchanan's	.75
765.*	" and Raspatories	.75
766.*	" Scalpel and Rasp	1.25
767.*	Cranial Rasp, Roberts'	2.25
768.	" Chisel, Kerr's	3.25
769.*	Vissatz Meter, Morris J. Lewis'	4.50
770.	Calipers, Cranial Index, Hoehner's	10.00
771.	" for measuring cerebral lesions, Boyer's	3.50
772.	Measuring, for measuring the thickness of the skull, Boyer's	2.00
773.	Knives, rounded edge, Crile's, double-ended, one blade slightly curved on fat, the other straight on fat, for Gosselin's operation	1.75

All instruments illustrated are designated by a *.

General Operating Instruments.

CRANIAL INSTRUMENTS.



771.* Dr. Wm. H. Hudson's Cranial Instruments: complete set in washable instrument roll.

\$61.50

Set consists of Five Cranial Reamers with Hand Brace (a, b, c, d, e), \$55.00; Cerebellum Attachment (f), \$2.50; Calipers (g), \$2.00; Dural Separator and Elevator (h), \$3.50; Gigli Saw Carrier and Elevator (i), \$3.50; Ringers Forceps (k), \$30.00.

Owing to a certain automatic safety principle in the construction of the trephine leaves these instruments render the trephining of the skull absolutely safe. Dr. W. W. Keen, in the address to "Keen's Surgery," says about the trephine: "They are peculiar in this respect, that as long as there is any resistance the blades, which are spiral cutting blades, will very rapidly cut their way through the skull, but as soon as resistance ceases—i. e., as soon as the bone is reached, so even a very thin layer of bone on the inner surface of the skull which yields to pressure—the instrument ceases to advance, for the brace can no longer be turned. So the skull thin or thick, the reamer will cut rapidly until it is nearly or fairly through and then stops."

The Hudson Ringers Forceps (k) are the most powerful of their kind, and they do not slip.

Any osteoplastic operation with the aid of Dr. Hudson's Cranial Set is performed with great ease, absolute safety and most speedily. For cranial operations on infants they are the only instruments which can be used with safety.

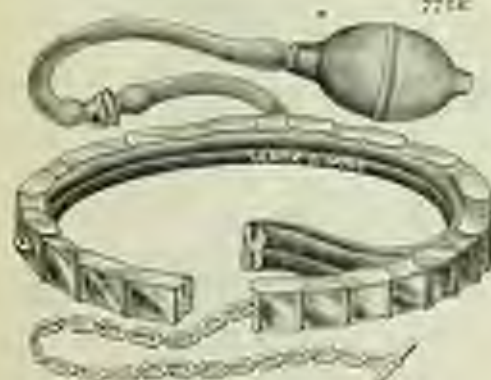
All instruments illustrated are designated by a *.

General Operating Instruments.

CRANIAL AND BRAIN INSTRUMENTS.



771k



772

700 and 700a
(described on page 69)

770



776



776

770*	Cranial Chisel, Keen's	\$2.50
771k*	Cranial Rongeur Forceps, Hudson's, with extra jaw blade	20.00
772*	Cranial Chain Tourmiquet, Lentz's	18.00

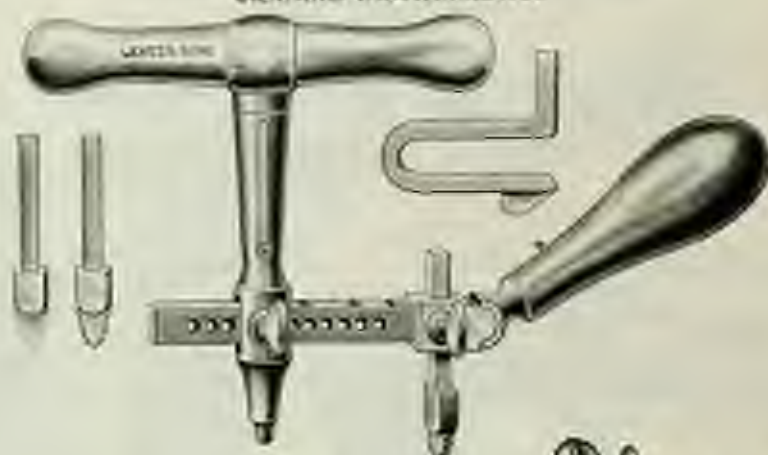
It owes its inception to Dr. A. C. Wood's idea of utilizing for tourmiquet a collapsible rubber tube which permits of large expansion. With this idea as a basis, we encased the tube in a chain of U shaped links. When the operator inflates the tube, after the instrument is applied firmly, expansion takes place at all points of least resistance, hence the compression becomes equal at all indentations along the contour of the cranium.

776	Scalp Hemostats (see Hemostatic Forceps)	
776*	Scalp Saw, Hey's	1.35
780*	" " Dwyer's, with guard and graduation (illustration page 34)	6.00
700*	Wire Saw, Gigli's, 12 inch, 30, 20 inch, 40, 30 inch	.60
708*	Handles for Gigli's Saw, wire ring	.50
708*	" " " " " " " "	per pair
781*	Holder " " " " " " " "	1.50
781*	Holder " " " " " " " "	5.00
781*	Conductor for Gigli's Saw, Payr's	3.00
781*	" " " " " " " "	.50
781*	" " " " " " " "	1.75
784*	" " " " " " " "	1.50

All instruments illustrated are designated by a 1.

General Operating Instruments.

CRANIAL INSTRUMENTS.



751



753-754



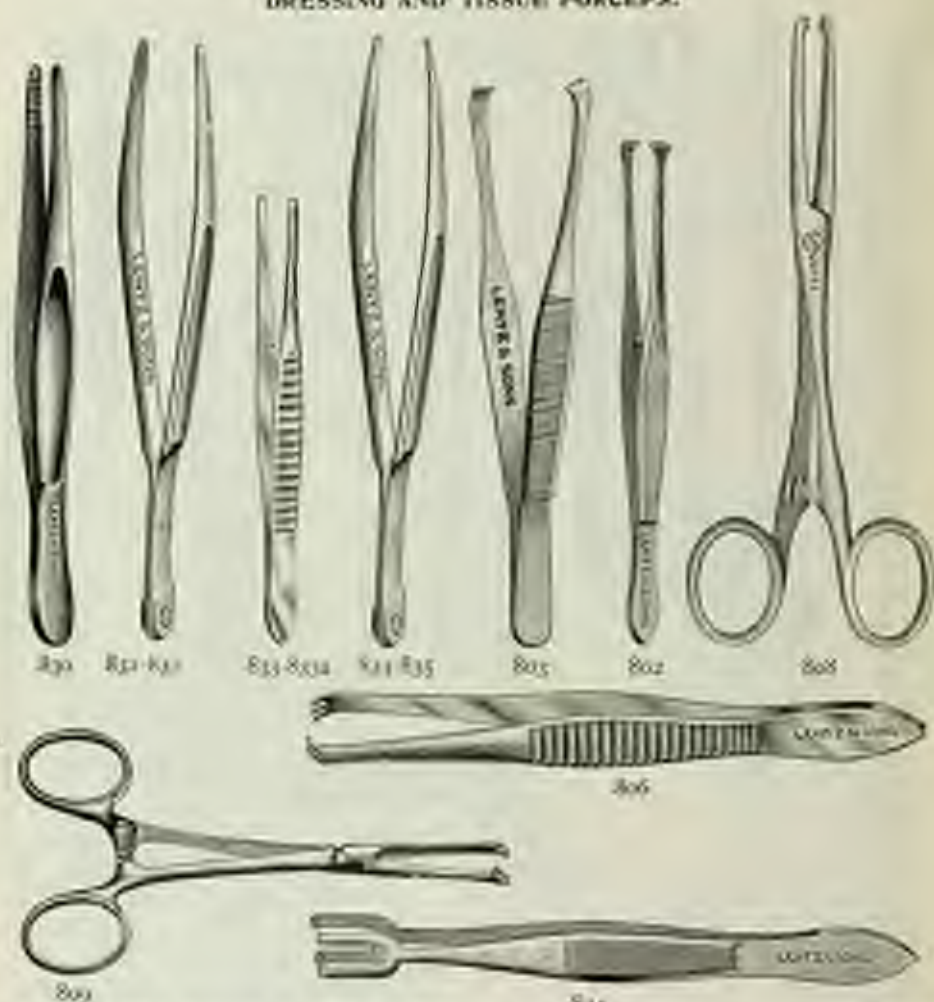
755-757

- 750.* Trephine, Wood's modified Stollwagen's for osteoplastic resection of the skull; with one knife blade and three saw blades, as illustrated, complete \$20.00
752. Trephine, Stollwagen's original for osteoplastic resection of the skull, complete 15.00
- 753.* Cranial Saw, Haslam's, complete with shaft and sheath, but without motor 90.00
- 754.* Cranial Saw, Haslam's, same as No. 753, with 110-volt direct-current motor 85.00
- 755.* Electric Engine, "Victor" for bone surgery; complete for general bone work and osteoplastic resection of the skull; with motor for 110-volt direct current 115.00
- 756.* Electric Engine, "Victor," complete with motor for 220-volt direct current 125.00
- 757.* 110-volt-60 cycles alternating current 125.00

All instruments illustrated are designated by a *.

General Operating Instruments.

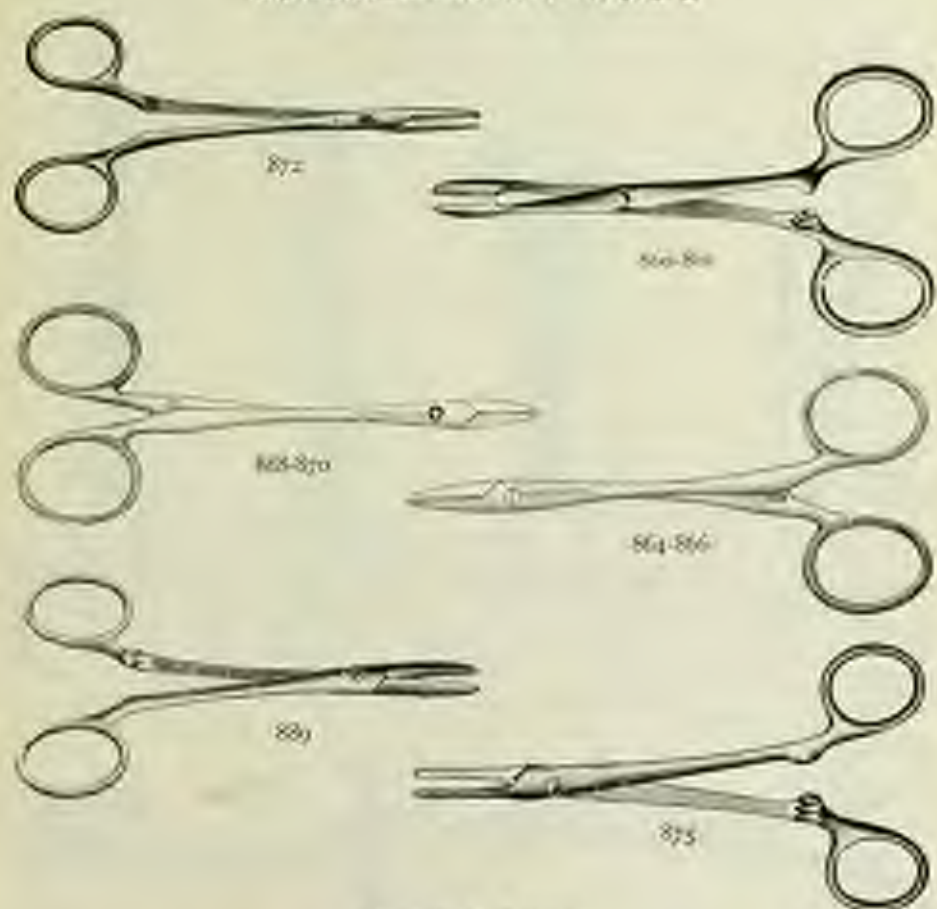
DRESSING AND TISSUE FORCEPS.



No.	Instrument	each \$
830*	Thumb Forceps, serrated; 4 inch and 4½ inch	45
830*	" " " " " "	55
830*	" " " " " "	75
831*	" " " " " "	1.25
832*	" " " " " "	2.00
832*	" " " " " "	1.00
833*	" " " " " "	70
833*	" " " " " "	80
834*	" " " " " "	1.25
835*	" " " " " "	2.00
800*	Tissue Holding Forceps, four and five teeth; 4½ inch, 5 inch, 6 inch	1.15
801*	" " " " " "	1.25
802*	" " " " " "	1.50
803*	" " " " " "	1.50
804*	" " " " " "	2.00
805*	" " " " " "	1.50
806*	" " " " " "	1.50
807*	" " " " " "	90
808*	" " " " " "	2.00
809*	" " " " " "	1.50
824*	Suture Forceps, Resha's, straight, 5 inch, curved	1.50
825*	Appendix Holding Forceps, Deaver's, serrated; 6 inch	1.25

General Operating Instruments.

ARTERIAL—HEMOSTATIC FORCEPS



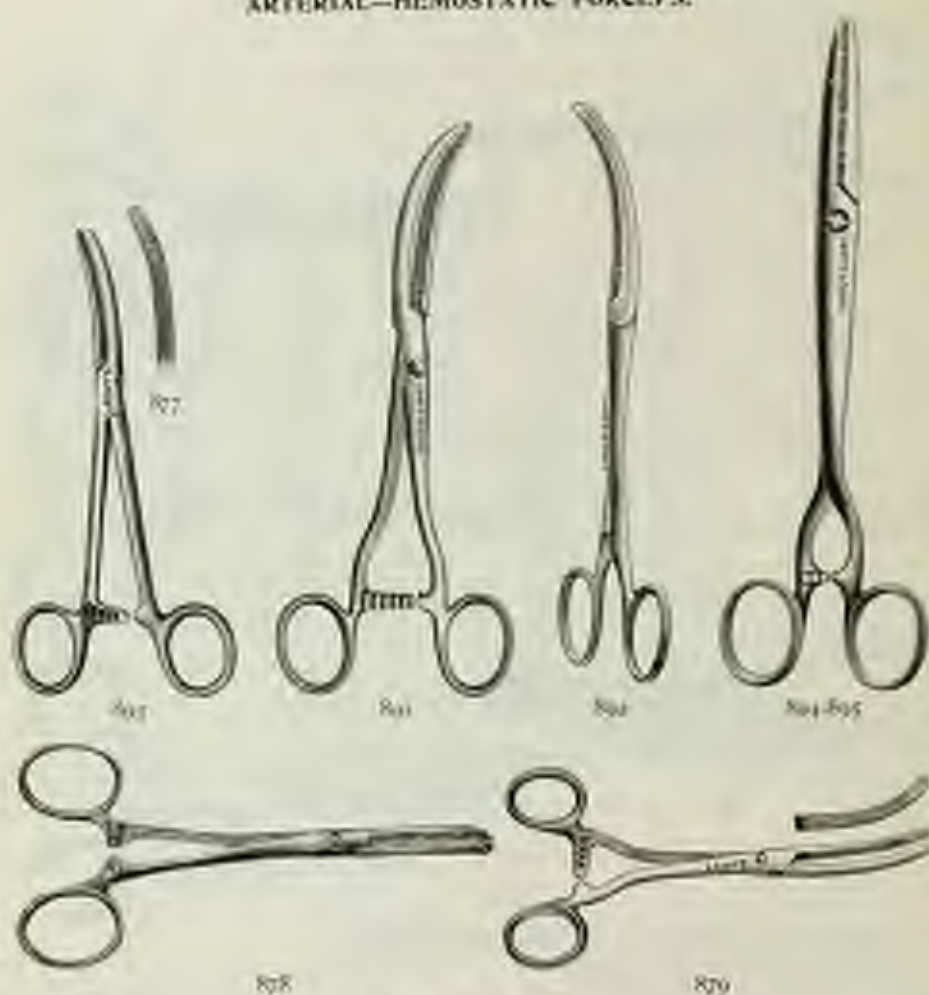
Hemostatic Forces.

860*	Pear's, regular style, 4½ inch	per dozen	\$4.80;	each	\$0.40
861*	" " " "	"	5.40;	"	.60
864*	Tait's, " " "	"	5.40;	"	.60
865*	" " " " best, 5 inch	"	7.00;	"	.75
866*	" " Lemie's special, superior, 5½ inch	"	12.50;	"	1.00
867*	" " curved, " "	"	10.00;	"	1.00
868*	Wells', regular, " "	"	6.00;	"	.65
869*	" " best, " "	"	9.00;	"	1.00
870*	" " Lesta's, special, superior, 5½ " French or screw joint	"	17.50;	"	1.60
871*	Joa. Price's, superior, 5½ inch, French or screw joint	"	17.50;	"	1.60
889*	Halsted's, straight	"	12.00;	"	1.25
890*	" " curved	"	12.00;	"	1.25
872*	" " straight, mosquito, very light	"	9.60;	"	1.00
873*	" " curved	"	10.00;	"	1.10
874*	" " straight, Johns Hopkins pattern, Collin's lock	"	12.00;	"	1.25
875*	Kelly's, straight, flat-pointed	"	10.00;	"	1.15
876*	" " curved	"	12.00;	"	1.25

All sentences illustrated are denoted by a +.

General Operating Instruments.

ARTERIAL—HEMOSTATIC FORCEPS.



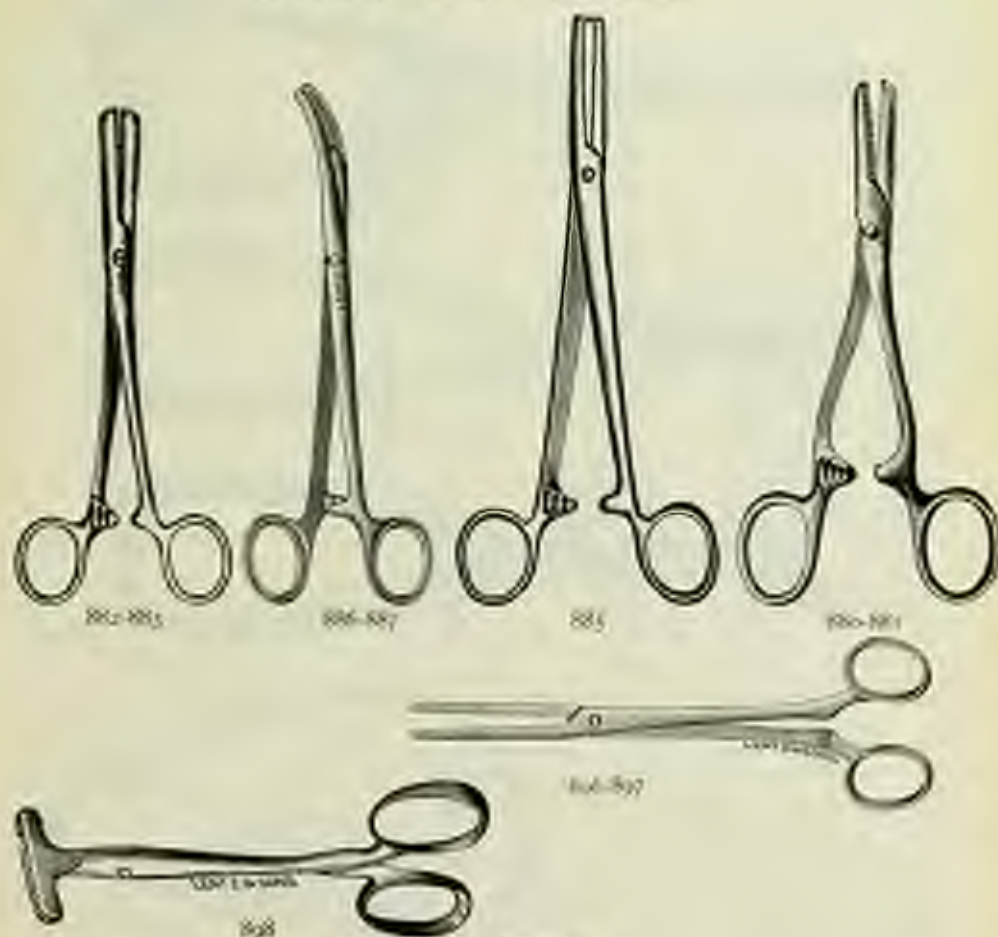
Hemostatic Forceps.

801.*	Kelly-Pear's, long curved spring jaw, 6½ inch per dozen	\$12.50; each	\$1.25
802.*	Hugo-Carnalt's, long curved jaw, box joint, 6½ inch, longitudinal serrations	18.00	1.75
803.*	Pear's, long curved jaw, 6 inch	10.50	1.00
804.*	Chamber-Pear's, long curved jaw, 5 inch	15.00	1.50
805.*	Iturridge's, long straight jaw, 6 inch	13.50	1.25
806.*	"	16.50	1.50
807.*	Kocher's, straight, with teeth, 5 and 5½ inch	10.00	1.00
808.*	Carnalt's, curved jaw, 4½ inch	16.50	1.50
809.*	Wright's, long slender jaw	10.00	1.00
810.*	"	9.50	1.00
811.*	John B. Deaver's special, superior, screw lock	24.00	2.25
812.*	Wm. B. Van Lennep's special, screw lock, 5 inch	21.00	2.00
813.*	Moxon's, oblique, 6 inch		2.25
814.*	Proctor Hospital, light round shanks, box joint, straight, 5½ in.		1.75
815.*	"	curved, 5½ in.	1.50

All instruments illustrated are decorated by a *

General Operating Instruments.

ARTERIAL—HEMOSTATIC FORCEPS.



Hemostatic Forceps.

880.*	Ferguson's straight, $5\frac{1}{2}$ inch	\$1.25
881.*	" " " " $6\frac{1}{2}$ "	1.50
882.*	" " " " " " pattern, straight, $6\frac{1}{2}$ inch	1.50
883.*	" " " " " " " " " " $7\frac{1}{2}$ "	1.75
884.	" " " " " " " " " " curved, $6\frac{1}{2}$ inch, \$1.75; $7\frac{1}{2}$ inch	2.00
885.*	Ochsner's, with teeth, $6\frac{1}{2}$ inch	1.75
886.*	Mikulicz's, curved, with teeth, right, $7\frac{1}{2}$ inch	1.75
887.*	" " " " " " " " " " heavy, $7\frac{1}{2}$ inch	2.00
896.*	Koch's, long jaw, 6 inch	1.50
897.*	" " " " " " " " " " 7 "	1.75
898.*	Thornton's, T-shaped, 5 inch	1.50
899	Pratt's, T- " " 6 "	1.25
905.	Houzel's Scalp Hemostatic Forceps	" .25
906.	Hudson's " " " " right angle	2.50
907.	" " " " " " T-shaped	1.50

All instruments illustrated are designed by a *

General Operating Instruments.

ELECTRO-THERMIC HEMOSTATIC FORCEPS.



908a



908b-c



908d

- 908a * Downes' Electro-Thermic Angiostyle, small, without lever; blade $2\frac{1}{4}$ inches long, $\frac{1}{8}$ inch wide \$25.00
- 908b * Downes' Electro-Thermic Angiostyle, medium, either with lever or without lever; blade $2\frac{1}{2}$ inches long, $\frac{1}{8}$ inch wide 20.00
- 908c * Downes' Electro-Thermic Angiostyle, large, with lever; blade $2\frac{3}{4}$ inches long, $\frac{1}{2}$ inch wide 20.00
- 908d * Downes' Electro-Thermic Angiostyle, curved, medium, without lever; blade $2\frac{1}{4}$ inches long, $\frac{1}{8}$ inch wide 22.00

Reprints and fully descriptive circular on application.

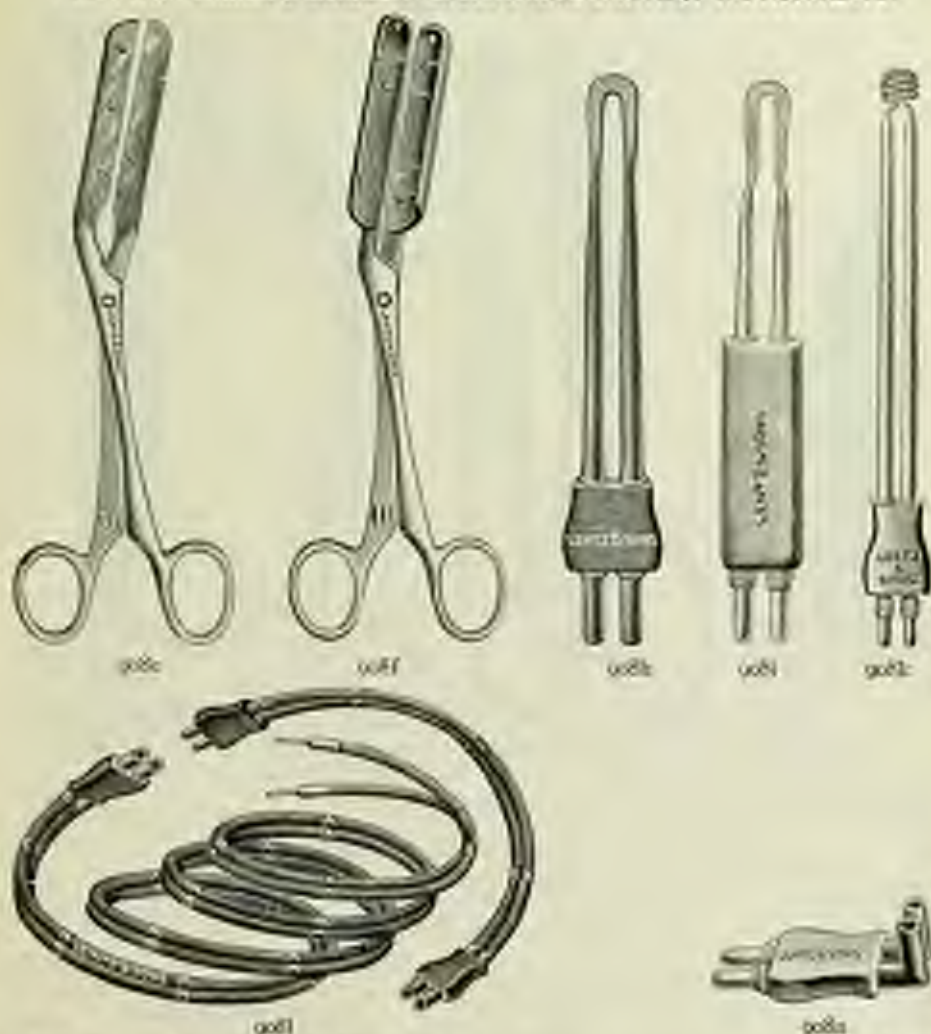
For the purpose of operating Dr. Downes' electro-thermic instruments we recommend the following apparatus, which are illustrated and more fully described in the "Electrical" section:

- Current Transformer for 104 volt alternating current, without amperes meter \$25.00
- With the addition of foot switch, connecting cords and plug 28.50
- Current Transformer for 104 volt alternating current, with amperes meter, including foot switch, connecting cords and plug 65.00
- Current Transformer, combined with a motor transformer in one case, for 110 volt direct current, including foot switch, connecting cords and plug:
- Without amperes meter 65.00
- With amperes meter 100.00
- Storage Battery, 4 volts, 100 ampere-hours:
- Without amperes meter 55.00
- With amperes meter 80.00

All instruments illustrated are designated by a *

General Operating Instruments.

ELECTRO-THERMIC SHIELD FORCEPS AND CAUTERY INSTRUMENTS.



908c.*	Downes' Hemispherical Shield Forceps	3 75
908f.*	" Abdominal " " straight	4 75
908g.	" " " " curved	5 75

Designed to protect the surrounding tissue when using Dr. Downes' angiotribes; Fig. f surrounds the blades almost entirely.

908b.*	Cautery Knife, heavy, 4½ inches	6 00
908i.*	" " " with extra long handle, 8 inches	7 50
908k.*	" Spiral Dome, 8 inches: spiral ⅜ in. diam. ⅜ in. long	20 00
908l.*	" Cable, specially heavy, two sections, 60 inches long	6 00
908m.	" " " single section, 60 inches long	4 00
908n.*	Tritch's special attachment for connecting cautery cable with angiotribes without bending cable at a sharp angle	3 00

Reprints and fully descriptive circular on application.

All instruments illustrated are designed by A. *.

General Operating Instruments.

DRESSING AND BANDAGE SCISSORS.



909.*	Scissors, Nurse and Hospital, heavy, 5 inch	\$1.00
909a.*	" " " " " " " " " " " "	1.50
910.*	" " " " " " " " " " " "	1.50
911.*	" " " " " " " " " " " "	1.00
912a.*	" " " " " " " " " " " "	1.00
912b.*	" " " " " " " " " " " "	1.35
912c.*	" " " " " " " " " " " "	1.65
913.*	" " " " " " " " " " " "	2.00
913a.*	" " " " " " " " " " " "	3.00
913b.*	" " " " " " " " " " " "	0.50
913c.*	" " " " " " " " " " " "	1.00

Our Bandage Scissors are of superior quality and fully guaranteed to meet every demand of the hard usage they experience.

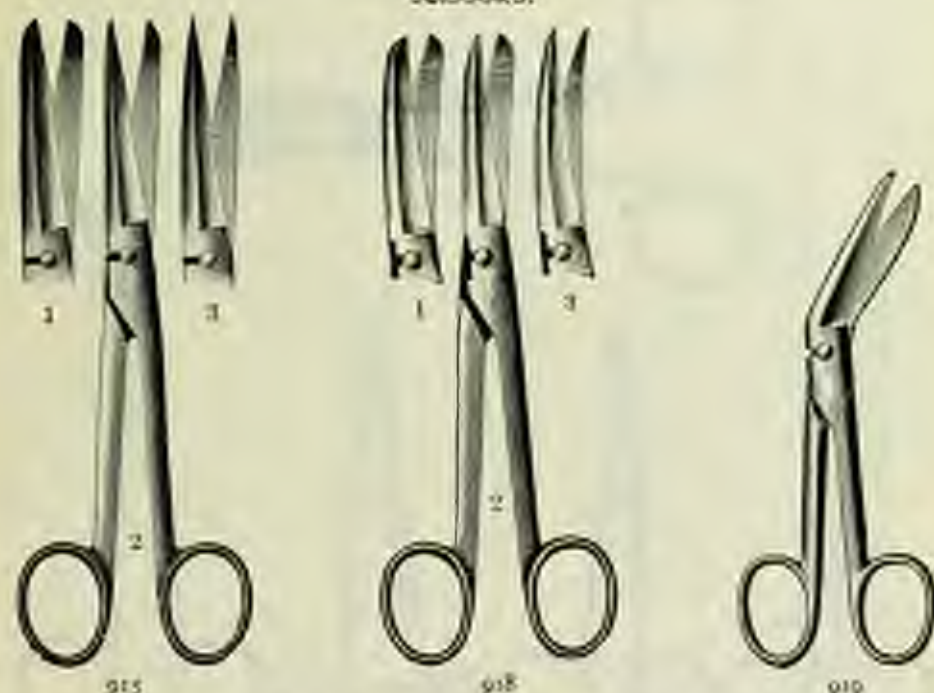
Our factory is equipped to repair, sharpen, hone, nickel-plate your instruments at shortest notice. For approximate costs of repair work, see page following index.

All instruments illustrated are designated by a.*

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

General Operating Instruments.

SCISSORS.



Operating Scissors, of best quality, with either aseptic joint or screw joint. They are far superior to scissors usually sold by others at slightly lower prices.

Scissors, straight, 4 inch, with points No. 1, 2 or 3				\$0 65
915.*	"	"	4 1/2	70
	"	"	5	75
	"	"	5 1/2	80
	"	"	6	85
	"	"	6 1/2	1 00
918.*	"	"	7 1/4	1 25
	"	"	curved on flat, 4 inch, with points No. 1, 2 or 3	75
	"	"	4 1/2	80
	"	"	5	85
	"	"	5 1/2	90
919.*	"	"	6	1 00
	"	"	6 1/2	1 20
	"	"	7 1/4	1 50
	"	"	angular, 4 1/2 inch	85
	"	"	5	90
920.*	"	"	5 1/2	1 00
	"	"	6	1 10

920. Operating Scissors, German Hospital—Philadelphia—special, hand forged, screw joint, 5 1/2 inch, straight, 2 00

920a. Operating Scissors, German Hospital—Philadelphia—special, hand forged, screw joint, 5 1/2 inch, curved, 2 25

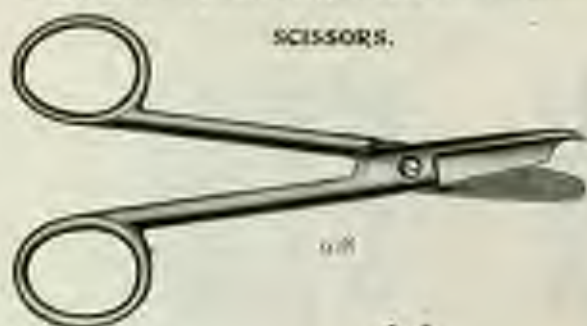
When ordering specify points desired as illustrated: No. 1, both points blunt; No. 2, one sharp point and one blunt point; No. 3, both points sharp; also specify whether desired with separable or with screw joint.

*All instruments illustrated are designated by a *.*

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

General Operating Instruments.

SCISSORS.



920



	921	922	923	924	925
921.*	Scissors, curved sideways, both points either sharp or blunt, 5 1/2 inch				
921.*	"				
922.	"	Artery, straight, with long probe point			
923.	"	"	Artery, straight, with long probe point		
	"	Mayo's, straight, 5 inch			
924.*	"	"	"	5 1/2 inch	
	"	"	"	6 inch	
	"	"	"	6 1/2 inch	
	"	"	"	curved on flat, 5 inch	
925.*	"	"	"	"	5 1/2 inch
	"	"	"	"	6 inch
	"	"	"	"	6 1/2 inch

When ordering specify points desired; both points blunt; one sharp point and one blunt point; or both points sharp.

926.*	Scissors, Mayo's, dissecting, straight, 5 1/2 inch	1.50
	" " " " " 6 1/2 "	1.75
927.	" " " " " curved on flat, 5 1/2 inch	1.50
	" " " " " " 6 1/2 "	1.75

Mayo's Scissors are heavier and the blades shorter than the regular scissors listed on the previous page. They will therefore not "feather."

They are forged from the best grade of English steel by skilled workmen, and the surgeon may rely absolutely upon their quality. They are all furnished with the screw joint.

The Mayo's Dissecting Scissors have a conical shaped blunt point, which can be used as a tissue separator or dissector. They are of great practical utility in a large variety of operations, such as tubercular gland operations, breast operations, etc.

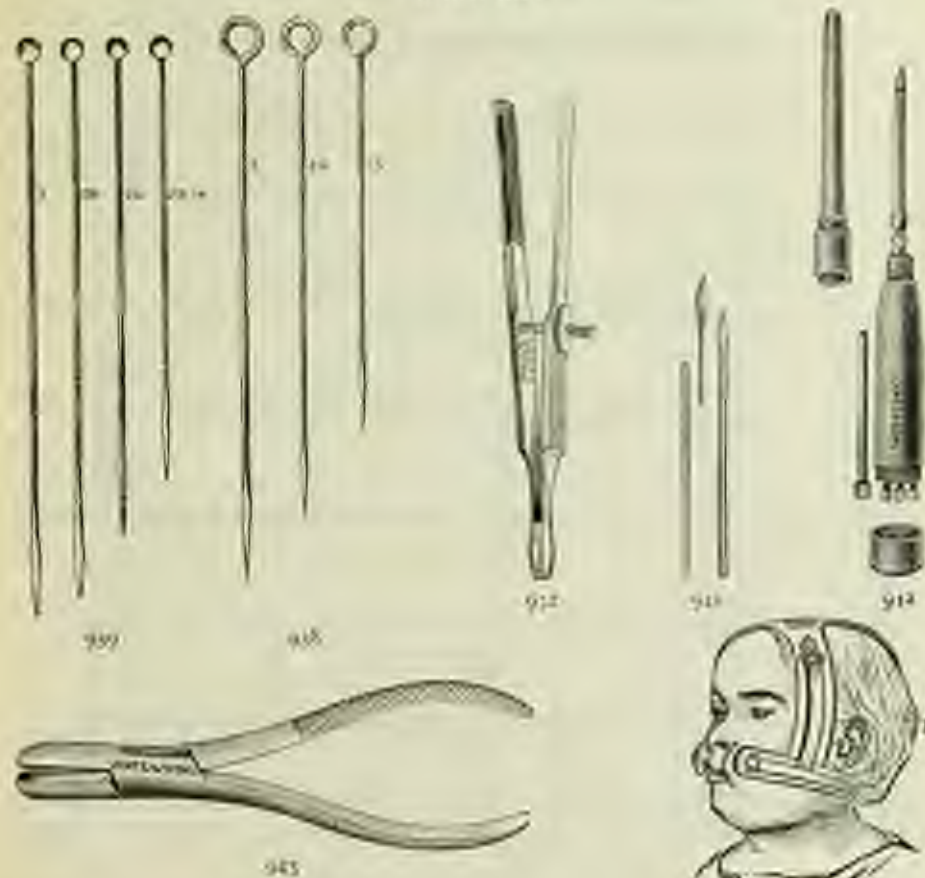
928.* Still's Scissors, screw joint, Littauer's, for cutting buried stitches without puncturing or abrading the skin or tissue. 1.25

For other Scissors, see Gynecological Instruments.

All instruments illustrated are designated by a *.

General Operating Instruments.

HARE LIP.



939.	Hare Lip Forceps, Hutchinson's	50
940.	" " " Smith's	50
941.	" " " Ziegler's	50
942.	" " " parallel opening	50
943.	" " " Jaws, angular	50
944.	" " " straight	50
938.	Scalpels	50
937.	Pins, assorted	50
936.	" " " ring head, assorted, 2 to 3 inches	50
935.	" " " glass " 2 to 3 "	50
934.	" " " White's, octagon steel head	50
933.	" " " Silver Canals, with removable points	50
932.	" " " Canals Boothby's, silver, set in aluminum case	50
931.	Pin Curling Forceps, aseptic	50
930.	Pin Condenser, Post's	50
929.	Hare Lip Truss, Hainsby's (made to order)	50

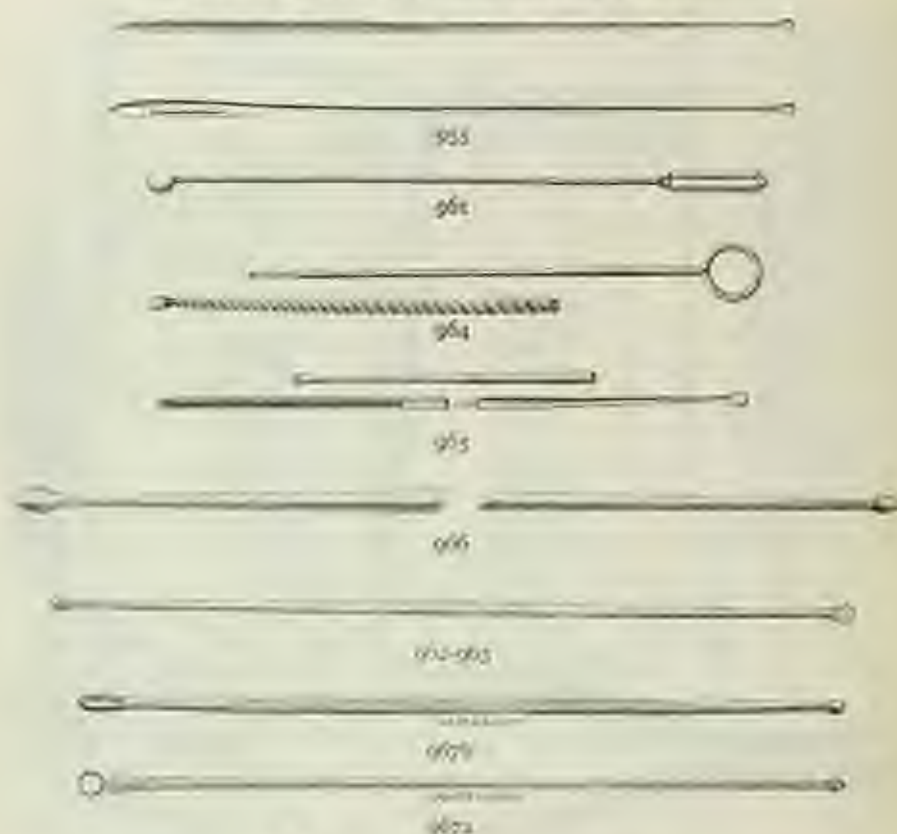
(Extract from Dr. J. H. Krüger's book on the Science and Art of Surgery, vol. 2, p. 491.) If the fissure be wide and the child restless, so that there is danger of the parts being dragged upon during its screaming or crying, it is a very good thing to apply the spring check (see) resorbable by Hainsby. Indeed, whenever obtainable, this excellent contrivance should be employed. Its use adds greatly to the success of the operation.

MEASUREMENTS REQUIRED:—Circumference of face and neck taken in an oblique direction. Circumference of head under the skin and over the head.

All instruments illustrated are designated by a *.

General Operating Instruments.

GENERAL SURGICAL AND BULLET PROBES.



Probes for Pocket Cases, per pair.

953 *	3½ to 2 inch	German silver, silver plated, etc.; silver	\$2 60
-------	--------------	--	--------

Probes with Eye, single.

955	6 inch	German silver, silver plated, etc.; silver	45
957	7 "	" " " " 25c; "	55
958	8 "	" " " " 30c; "	60
959	9 "	" " " " 40c; "	70
960	10 "	" " " " 50c; "	80

961 *	Bullet Probe, Nohlen's, unreciproc head, with handle, 6 inch, plated	50
962 *	" " " " " " " " 8 " "	60
963 *	" " " " " " " " 10 " "	75
964 *	" " " " " " " " spiral, flexible, plated	75
965 *	" " " " " " " " Hamilton's, with Director, in three parts,	1 00
966 *	" " " " " " " " Fisher's, aluminum	75
967	Swiss Probe, Allen's, copper, polished, straight, with handle, 12 to 18 in. long.	each 1 30
967a *	Gall Duct Probe, spiral, Gschwenk-Eaenger's	1 25
967b *	" " " " " " " " and Scoop, black tin, Mayo's	1 00
968	Gelwood Director, large and strong, plated, 6 in., 8 in., 10 in., 12 in.	1 00

All instruments illustrated are designated by a *

General Operating Cases.



1616

1000.² Amputating Case, No. 1.

Liton's Knife, median,
Cutting, small.
Scalpel.
Tensarum.

Artery Forceps, Wells'.
Metacarpal Saw.
Bone Forceps.
Capital Saw.

Tourniquet, Petit's or
Esmarch's.
Needles and Silk.

In mahogany case, lined with leather; all susceptible instruments, knives with hollow metal handles.

\$12.50



1620

1000.² Lentz's Compact Operating Case, No. 10, Style A.

Amputating Knife, for leg
and arm.
Finger Knife.
Hernia Knife.
Blunty, curved, sharp point.
2 Scalpels.

Tensarum.
Tensarum.
Scissors, curved.
Saw, 7 1/2 inch blade.
Liton's Bone Forceps.
Artery and Needle Forceps,
combined.

Pear's Artery Forceps.
Esmarch's Tourniquet with
chain.
Director with Annular
Needle.
Pair Probes.
Needle, Silk and Silver Wire.
Scissors and Saw made to

All the Knives with hollow metal handles. Forceps, Scissors and Saw made to
case can be separated easily.

In mahogany case, lined with leather; knives in metal racks.

\$25.00

General Operating Cases.

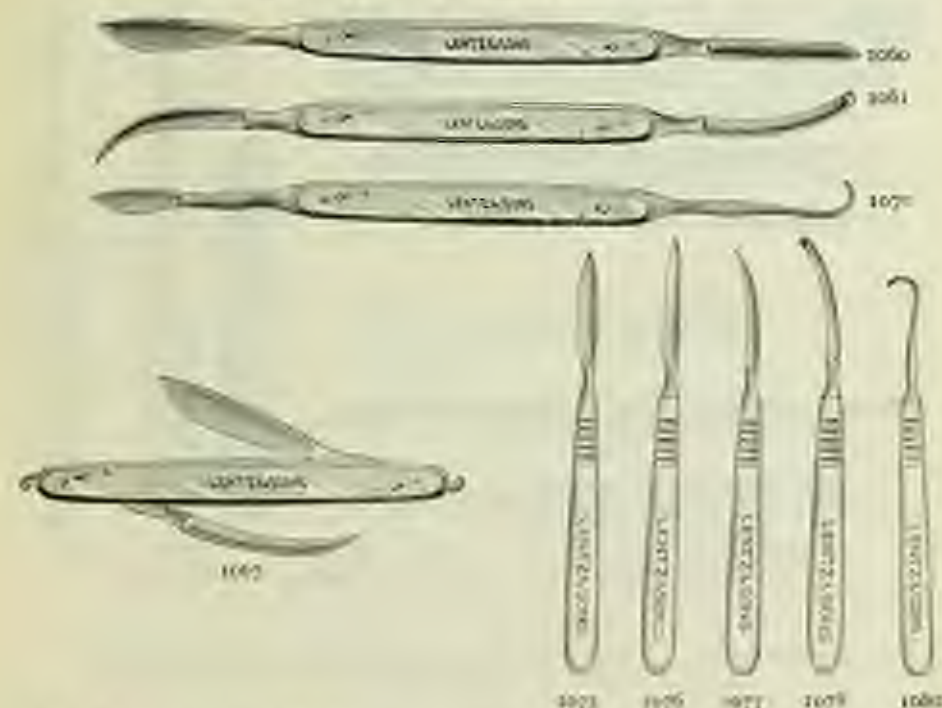
1005. ^A Compact General Operating Case, No. 7.

This is the most compact and aseptic case of its kind on the market. The instruments are arranged on two handsome, well made, removable metal racks, on which solder is used, thus allowing sterilization at a very high temperature. The case itself is substantial, leather covered, with fine nickel trimmings and a very comfortable handle.

Large Amputating Saw, removable handle. Medium Amputating Knife. Small Cutting Knife. Seven Minor Operating Knives, assorted blades to suit. Bismarck's Tourniquet. Gold's Trephine. Hey's Skull Saw. Trephine Elevator and Raspator. Bone Forceps, with spring. Large size Double End Volkman's Bone Curette. Bone Chisel. Bone Gauge. Two Tait's Hemostatic Forceps. Tissue with reversible metal handle. Angular Bandage Shears. Two Peas's Hemostatic Forceps. Straight Scissors. Curved Scissors. Thumb Dressing Forceps. Metacarpal Saw, lifting back. Keen's Large Needle Holder. Pair of Parker's Retractors. American Buffer Forceps, with catch. Nelson's Porcelain Head Ballet Pliers. Pair of Plated Probes. Director and Anesthetism Needle. Assortment of Needles and Silk.

All aseptic instruments, knives with hollow metal handles \$45 00

Pocket Case Instruments.



- 1060.* Scalpel and straight Ristoury
 1061.* Ristoury, sharp and probe pointed
 1062. " curved, sharp pt. and Tenotome
 1063. " " probe pt. and Gum Lancet
 1064. Tenotome and Gum Lancet
 1065. Tenotome and Gum Lancet
 1066. Scalpel and Tenotome
 1067.* " and Ristoury, curved, sharp point
 1068. Ristoury, curved, sharp, and Ristoury straight
 1069. " straight, sharp, and Tenotome
 1070.* Tenotome and Tenotome
 1071. Gum Lancet and Hollow Needle

In shell handles with slide catches each \$ 1.75
 In aluminum handles with slide catches each 2.00
 In aluminum handles with test catches each 2.50

Any other combination that may be desired supplied at same prices.

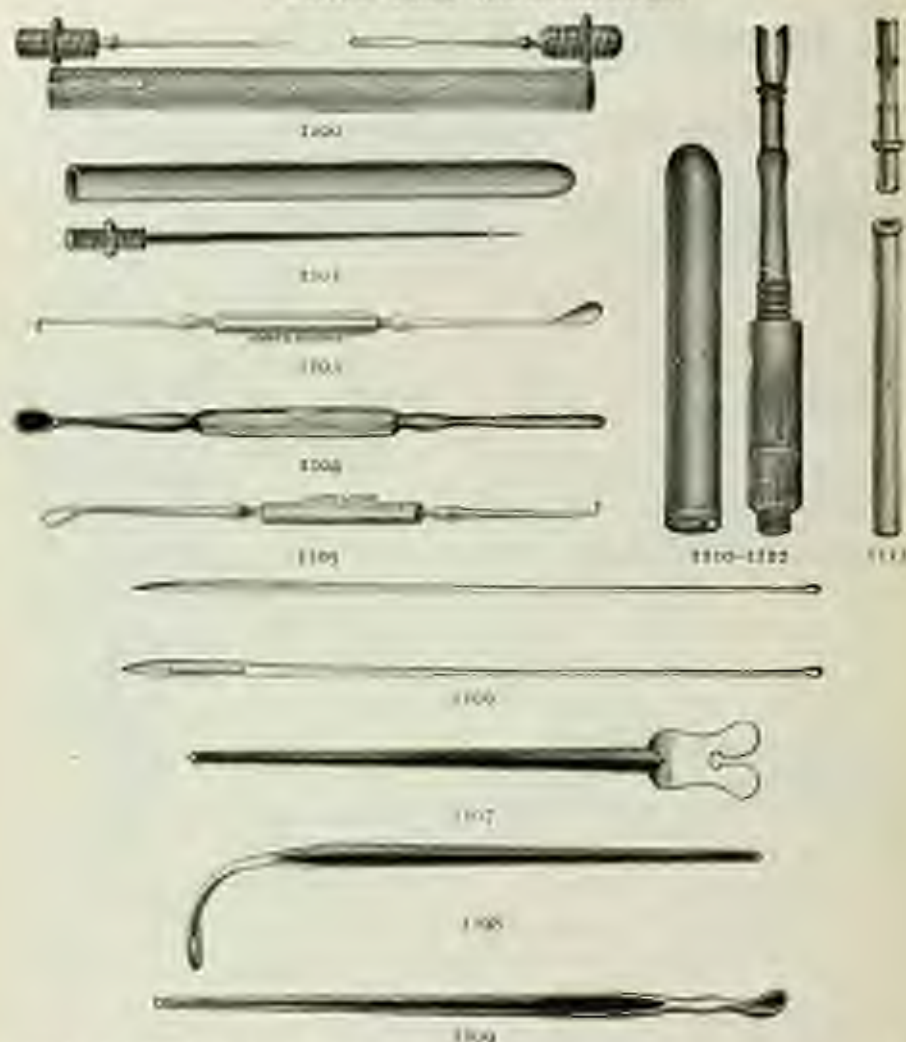
**LITTLE'S ASEPTIC POCKET CASE INSTRUMENTS,
 ALL STEEL, NICKEL-PLATED.**

- 1073.* Scalpel, 2 sizes \$ 0.75
 1075.* Ristoury, straight 75
 1077.* " curved, sharp point 75
 1078.* " " probe point 75
 1079. Tenotome 75
 1080.* Tenotome 75
 1081. Anesthion Needle 75
 1082. Finger Saw 1.00
 1083. Carotte, Volkman's pattern, oval or round spoon 75

These instruments are small enough for pocket cases, and handles are thin and light.

All instruments illustrated are designated by a *

Pocket Case Instruments.



1100.*	Eye Speel and Needle, fine, in metal case		\$1.30
1101.*	Exploring Needle, metal case		.30
1102.	" " " " with handle, all steel, 4 inches long		.50
1103.*	Ear Spoon and Hook, Gross'	brass n. p., 50c.; fine, steel n. p.	.50
1104.*	" " " " Speel, Gross'	35c.; " " "	.40
1105.*	" " " " Penetrated and Hook	" " 40c.; " " "	.60
1106.*	Probes, 3/16 to 5/16 inch	per pair, silver plated, 40c.; aluminum, 50c.; silver	.50
1107.*	Director, with Tongue-tie	brass n. p., 50c.; fine, plated, 40c.	1.15
1108.*	" " " " Atresia needle	" " 35c.; " " "	1.25
1109.*	" " " " Ear Spoon	" " 35c.; " " "	1.25
1110.*	Cassie Holder, ebony, with silver turner		.50
1111.*	" " " " hard rubber, two sizes	short, 15c.; long	.45
1112.*	" " " " aluminum, two sizes	" " 75c.; " "	1.05
1112.*	" " " " silver, two sizes	" " 90c.; " "	1.50

*All instruments illustrated are designated by a *.*

Pocket Case Instruments.



1120-1122



1123-1125



1126



1127



1128

1120*	Catheter, Combined male and female, silver	\$2.00
1121*	" " " " German silver, triple silver plated	1.15
1122*	" " " " brass, ratchet plated	.75
1123*	" " " " Parker's, brass, ratchet plated	.25
1124*	" " " " German silver, plated, with silver caustic holder	1.84
1125*	" " " " all silver	3.00
1126*	" " " " German silver, plated, with silver cover over caustic holder	2.50
1127*	" " " " female and child, plated	1.50
1128*	" " " " female	silver plated, etc., silver
1129*	" " " " round holes in end	.50
1130*	" " " " round holes in end	.50
1131*	" " " " folding, in aluminum handle, spring back	1.00
1132*	" " " " Splinter Forceps, fine points	2 1/2 inch, 40c., 2 inch
1133*	" " " " Feilschmidt's	1.00
1134*	" " " " Diamond shaped point	.60

Decussing Forceps, see page 60

Hemostatic Clamp Forceps, see pages 64 to 65

Sissors for General Operating, see pages 67 and 68

Needles, Silk, Silver Wire and Catgut, see Surgical Necessaries

Needle Holders, see Eye Instruments and Surgical Necessaries

All instruments illustrated are designated by a *

Pocket Instrument Cases.

From the fact that every doctor must at all times have with him his pocket instrument case, and because he uses these instruments more than any others, it may be either the most unsatisfactory or the most satisfactory article in his possession. Such cases, to be of value as pocket cases, should be neat and small, and the instruments they contain should be of slightly smaller size than regular operating instruments, and of the finest possible workmanship and pattern.

While the prices of many instruments have been more or less reduced through the use of modern and improved machinery and the manufacturing of larger quantities, yet a great many instruments are made of cheaper material, which, being nickel-plated, look nearly as good to the purchaser, and are sold by many as best quality.

We make only one quality of cutting instruments; but in addition to our catheters, probes, directors, etc., made of German silver and silver-plated, we make these also of brass and nickel-plated, and by the difference in the prices listed, it will be seen that any pocket case desired with this grade of instruments can be furnished at from 20 to 25 per cent less.



1140

1140. * Gross' Pocket Case, No. 1.

Scalpel and Straight Bistoury; Trepan and Tenaculum; Curved Bistoury, sharp-pointed, and Curved Bistoury, probe-pointed; Artery and Needle Forceps combined; Spring Forceps; Scissors; Pean's Artery Forceps; Male and Female Catheter with Cassie Holder, silver-plated; Gross' Ear Scoop and Hook; Grooved Director; Exploring Needle; pair of Probes, silver-plated; six Needles and Silk.

Double Knives, with aluminum handles, with slide catch, fine morocco case, lined with leather.

\$13.00

1141. * Gross' Improved Pocket Case, No. 2.

Scalpel and Straight Bistoury; Trepan and Tenaculum; Curved Bistoury, sharp-pointed, and Curved Bistoury, probe-pointed; Artery and Needle Forceps combined; Spring Forceps; Scissors; Pean's Artery Forceps; Male and Female Catheter with Cassie Holder, silver-plated; Gross' Ear Scoop and Hook; Grooved Director; Exploring Needle; pair of Probes; six Needles and Silk.

Hicks' Indestructible Index Thermometer; Silver Barrel Hypodermic Syringe, with Needle in the end of piston rod.

Double Knives, with aluminum handles, with slide catch, fine morocco case, lined with leather.



1141

All instruments illustrated are designated by a *.

Pocket Instrument Cases.

1142.* Gross' Aseptic Pocket Case, No. 3.



1142

This case contains the same number of instruments as the No. 1 Gross' Case, but the knives, instead of being double folding in handle, are single, and made of one piece of steel, and are held securely in their places by leather loops placed upon a tilting flap so that they may be easily taken from and returned to the case. The points lie between two strips of cork, which protect both the knives and the case.

Contents: Scalpel, straight; Entoeries, curved sharp, and curved probe; Tenotomy; Tenaculum; Artery Forceps, fenestrated, combined with Needle Holder; Plain Spring Forceps; Pean's Artery Forceps; Scissors; Combined Male and Female Catheter, silver-plated, with silver Caustic Holder; Gross' Ear Spoon and Hook; pair of Probes; Grooved Director; Exploring Needle; six Needles and Silk.

In morocco case, leather lined \$10 50

1143. Lintz's Aseptic Pocket Case, No. 4.

Contents: Four Little's steel handle Knives, held in place by leather loops upon a tilting flap, as described above; Scissors; Hemostatic Forceps; Artery and Needle Forceps, slide catch; Combined Male and Female Catheter, silver plated, with silver Caustic Holder; Ear Spoon and Hook; Grooved Director; pair of Probes; six Needles and Silk.

In Russia calf or morocco leather case, leather lined \$8 50

*All instruments illustrated are designated by a *.*

Pocket Instrument Cases.**01144* LITTLE'S ASEPTIC
POCKET CASE No. 3a.**

(Contents)

Six Little's Knives.
Straight Scissors.
Thumb Forceps.
Needle Holder.
Hemostatic Forceps.
Ear Spoon and Hook.
Combined Catheter and
Cystic Holder.
Exploring Needle.
Grooved Director.
Two Probes.
Needles and Silk.

In instrument case . . . \$6.50

Same case without
Needle Holder . . . \$5.50

**01145* VEST POCKET
EMERGENCY CASE
No. 4a.**

(Contents)

Two Little's Knives.
Straight Scissors.
Thumb Forceps.
Grooved Director.
Two Probes.
Gross' Ear Spoon and
Hook.
Needles and Silk.

In instrument case . . . \$3.25

**01146† VEST POCKET EMERGENCY
CASE, ALL METAL, No. 7a.**

(Contents)

Scalpel.
Curved Sharp-Pointed Battery.
Thumb Dressing Forceps.
Scissors.
Director, with Tongue Tie.
Two Probes.
Needles and Silk.

Same case with Hemostatic
Forceps in addition . . . \$5.25

The case measures but 5 x 1 1/2 x 3/4 inches. It is made from German silver, finely finished and nickel-plated, with neat felt pouch. The knives are made from best steel, hand-forged and fully guaranteed.



01144



01145



01146

Pocket Instrument Cases.**1147.* Pocket Case, No. 8.**

1147

Contains: Combined Catheter, Male and Female, silver-plated; Scalpel and Straight Bistoury; Curved Bistoury and Tonsilometer; Scissors, Grooved Director; pair of Probes; Exploring Needle; Artery and Needle Forceps; Needles and Silk.

Double Knives with aluminum handles, with slide catch, one-fold, morocco-leather case.

\$9.00

1148. Deaver's Pocket Case, No. 9.

Contains: Scalpel and Straight Bistoury; Curved Bistoury, sharp point, and Curved Bistoury, probe point; Scissors; Dissecting Forceps; Exploring Needle; Director; Gross' Ear Spoon and Hook; Pean's Artery Clamp Forceps; pair of Probes; six Needles and Silk.

Double Knives with aluminum handles, with slide catch, one-fold, morocco-leather case, without lock.

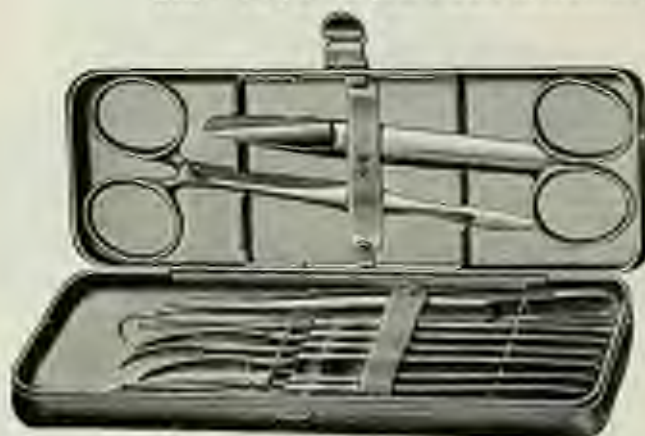
\$5.00

1149. Empty Pocket Cases.

Gross' No. 1, morocco, best quality	\$1.25	One-fold, No. 8	\$1.25
Gross' No. 2, " "	2.25	Deaver's One-fold No. 9	1.25
Two-fold, " plain	1.25	Nurse's No. 11	1.25
Gross' No. 3, " best	1.25	" " 12	.75
Gross' No. 4 call	1.25	" " 13	1.00
Lentz's No. 4 morocco	1.50	" " 14	1.00
Little's No. 2	1.50	" " 15	1.25
Van Packer No. 6	1.00		

Pocket Instrument Cases.

1160.* Aseptic Surgical Pocket Instrument Set, No. 17.



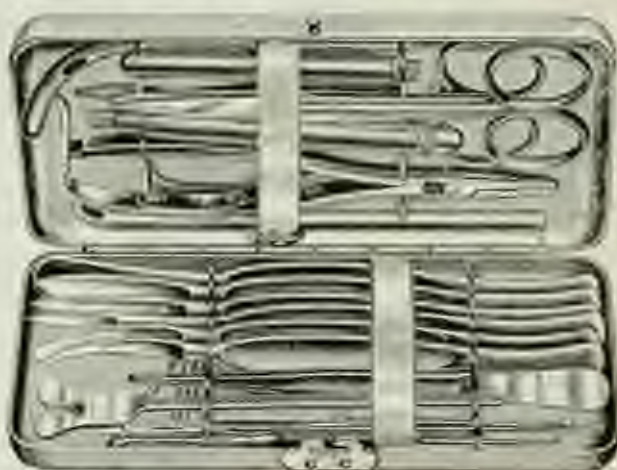
CONTAINS:

- 5 assorted blades of LITTLE'S KNIVES.
- 1 spring dressing forceps.
- 2 Pean's hemostatic forceps.
- 1 straight surgical scissors.
- 1 Green's ear spoon and hook.
- 1 pair pliers.

German silver case, 5 in. long x 2 in. wide x 1 in. high, in steel frame chrome-plated bag. \$12.50

1160

1161.* Little's Aseptic Surgical Pocket Instrument Set, No. 18.



1161

Contains: 5 Special Fine Little's Knives; Scissors; Hemostatic Forceps; Parker's Catheter with Cautic Holder; Keen's Needle Holder; Green's Ear Hook and Spoon; Exploring Needle; Flat End Director; pair of Probes; Spring Dressing Forceps; Needles and Silk.

\$12.50

The case is of German silver, finely polished and plated, with rounded corners. The racks can be removed intact. The case measures only 5 1/2 x 2 1/2 x 1 1/2 inches, in a steel felt pouch with metal clasp.

1162.* Aseptic Surgical Pocket Instrument Set, No. 19.

Contains: 4 assorted Little's Knives; Spring Dressing Forceps; Hemostatic Forceps; Straight Scissors; Artery Forceps and Needle Holder; combined Director and Anesthetism Needle; pair of Probes. German silver case, 6 in. long x 2 in. wide x 1 1/2 in. high, in steel frame chrome-plated bag.

\$10.50

We can furnish almost any combination of Pocket Case Instruments desired in metal cases.

Pocket Instrument Cases.

1130.* PHILADELPHIA TRAINED NURSE CASE No. 11.

A compact case with all the essential instruments of our standard quality.

Contains:

- Bath Thermometer with glass ring top, registers up to 200°.
- One-minute Thermometer, in metal case.
- Dressing Forceps.
- Hemostatic Forceps.
- Scissors.
- Bandage Scissors.
- Pair Probes.
- Needles, Sift.
- Hypodermic Syringe, all metal, with needle in end of piston.
- Glass Catheter. Penknife, 2 blades.
- 2 Vials with Tablets.

Pkt up in fine seal grain black leather case, size 5 1/4 x 5 1/4 x 1 1/2 in.

PRICE, complete, \$6.75.



1130



1131

1131.* NURSES' RED CROSS CHATELAIN CASE, No. 12.

Contains:

- Thumb Forceps.
- All Metal Hypodermic Syringe with Needle.
- Scissors.
- Probe with eye on one end.
- Clinical Thermometer in Metal Case.
- Female Catheter, Metal.

\$4.00.

1132.* NURSES' RED CROSS CHATELAIN CASE, No. 13.

Same contents as No. 1131, but case is made with a pocket and with a flap cover over the upper part.

\$4.50.



1132

1133. Nurses' Pocket Case, No. 14. Contains: Scissors, Spring Dressing Forceps, Hemostat, Director, Probe, Female Catheter, metal; one-minute Clinical Thermometer. In one-fold morocco case. \$ 3.50

1134. Nurses' Pocket Case, No. 15. Contains: Scissors, Spring Dressing Forceps, Hemostat, Scalpel and Bone-ry, folding in aluminum handle; Female Catheter, silver plated; Probe, one-minute Thermometer. In one-fold morocco case. 6.00

All instruments illustrated are designated by a *.

General Operating Instruments.

TROCARS.



1163.*	Trocar, Eclairage, Silver Canula	3.00
1164.*	metal handle, with nickel-plated Canula, three sizes	4.00
1165.*	Berch's, metal handle, with nickel-plated Canula, three sizes	3.00
One inch from end of the Canula are many oval apertures to prevent coaction of flow on occlusion of broad part of instrument.		
1166.*	Trocar, with Sharp Canula, nickel-plated, three sizes	4.00
1167.*	and Canula, set of four sizes, in metal handle and cover	2.00
1168.*	three	1.00
1169.*	— curved, metal handle	1.00
1170.*	— four Silver Canulas, Smith's, for Anesthetized, in aluminum case	1.00
1171.*	Canula, with stop-cock, Fillet's, for Pericardiotomy Thoracotomy	3.75
1172.*	Pericardial, Roberts	3.75
1173.*	and Canula, Frank's, for Angioplasty	5.00

All instruments illustrated are designated by a *.

Aspirating Syringes.



1180



1182

1180. Aspirating and Injecting Syringe, glass barrel, with leather expanding plungers; capacity, 2 drachms; including two-way stopcock, three assorted needles and one trocar; in leather lined morocco case . . . \$2.50
- 1181.* Aspirating and Injecting Syringe, metal barrel, with leather expanding plunger; capacity, 2 drachms; including two-way stopcock, three assorted needles and one trocar; in nickel-plated metal case . . . 2.75
- 1182.* Aspirating and Injecting Syringe, all metal, with metal expanding plunger; capacity, 2 drachms; including two-way stopcock, three assorted needles and one trocar; in nickel-plated metal case . . . 3.50
1183. Aspirating Needles, universal thread, seamless steel, nickel plated, assorted lengths and gauges . . . each 40
1184. Aspirating Trocar with Canula, universal thread, nickel plated . . . 60

We repair all kind of Aspirators; can supply new parts, repairs and sharpen needles and trocars. For approximate cost see page following index.

Aspirators.



1200-1202



1200-1202

The pump has two automatic metal valves, one the reverse of the other, which enables the operator to quickly change it from an exhaust to a force pump, thus converting it into an injector. The valves are brass, easily closed, and are not injured by coming in contact with liquids, as the fluid passes only through the needle, long rubber tube and stop-cock; the instrument is easily cleaned.

The universal rubber stopper fits an ordinary size bottle. All metal parts are finely nickel plated.

Parala's Aspirator, Comprising Metal Barrel Pump, Three Needles, One Trocar, Double Stop-cock, and Tubing with Metal Fittings, in Metal Case; Without Bottle.

1200.*	Pompe's Aspirator, pump with expanding leather packing	\$7 00
1201.*	" " " " solid metal plunger	8 00
1202.*	" " " " expanding metal plunger	8 75

For a more complete outfit, see Nos. 1203-1204, which include three trocars and cannula, and three obstructions.

*All instruments illustrated are designated by a **

Infusion Apparatus.

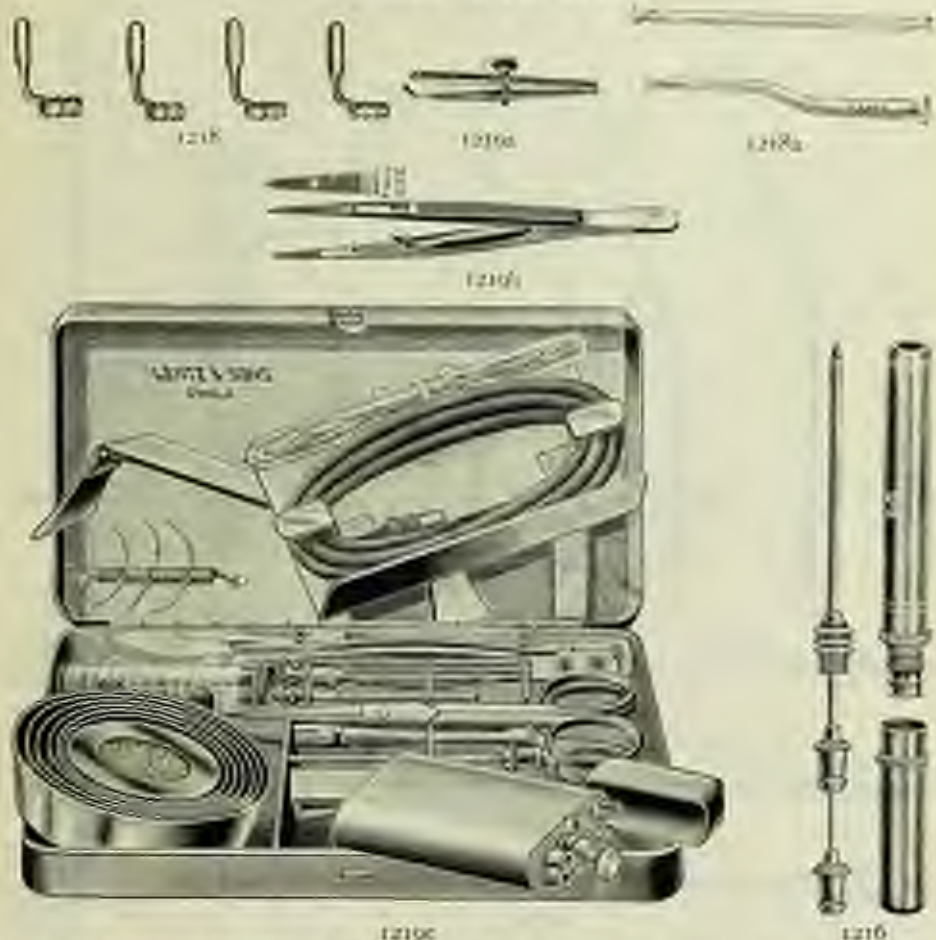


Infusion Apparatus.

1205.*	Lema's, with reservoir fitted into a metal frame, with tubing, one trocar and two cannulae (Fig. 1211)	\$2.45
1206.*	Kelly's, with graduated reservoir, fitted with stopper and force bulb, tubing and cannula	3.75
1207.*	Powder's, with graduated reservoir, fitted with stopper which is secured by a simple clamp device; two glass tubes pass through the stopper, one reaching to the bottom of the bottle; a force bulb is attached to the short tube and to the long tube a length of rubber tubing with a glass tube, inside of which a thermometer is placed; a heated and a straight metal cannula supplied	5.75
1208.	Bismarck's, graduated glass cylinder, capacity 300 cc., with tubing and cannula	2.50
1209.*	Northrop's, 6 oz. collapsible metal cup, with tubing and set of trocar and cannula (Fig. 1211) in nickel plated metal case	3.00
1210.	Transfusion Apparatus, Aveling's	4.50
1211.*	Infusion Set, Coffin's, trocar, two cannulae and stopper	1.25
1212.*	Thermometer for determining the temperature of salt solution being injected	1.50
1213.	Infusion Reservoir only, Kelly's	1.50
1214.	" " " " " " " " " " " "	1.00

All instruments illustrated are designated by a *.

Infusion Apparatus.



- | | | |
|---------|---|--------|
| 1215. | Infusion Apparatus, Webster's, in metal case | \$2 75 |
| 1215.* | Set, Fowler's, two infusion needles, trocar and canula, all combined in pencil case; needles will fit all regular syringes; suitable for pocket case | 1 00 |
| 1217. | Transfusion Canula, Ellsberg's, for the direct transfusion of blood; with three hooks, in fine leather case | 10 30 |
| 1218.* | " " Crile's, silver, set of four, in case | 3 50 |
| 1218a.* | " " Brewer's, glass; straight, each 200.; bent, each 300.; set of four | 75 |
| 1219. | Carotid Artery Clamp, Crile's, 3 inches long, straight | 1 00 |
| 1219a.* | Radial " " | 1 00 |
| 1219b.* | Transfusion Hemostat, Crile's, used in pulling the arteries through the canula | 1 25 |
| 1219c.* | Intravenous and Emergency Set, John H. Fisher's
Contains—Scalpel, Scissors, Spring Dressing Forceps, Hemostat, Hypodermic Syringe, Glass Tube with Catgut, Chromo-ized Catgut, dry, Silkworm Gut, Suture Needles, Alcohol Lamp, two Folding Stands, vial of Saline Tablets, 10 gr., Collapsible Cup with tubing, set of Collar's Trocar and Canula, Hypodermoclysis Needle | 10 50 |

Very compactly fitted into a German silver case, 1 1/2 x 7 x 4 x 1 inches. The metal rack is removable, so the case can be used for sterilizing the instruments by setting it on the stands and placing lamp underneath.

Infusion and Hypodermoclysis Needles.



1185*	Infusion Needle, double curve, with sharp point	\$0 55
1186*	" " " " blunt	50
1187*	" " " " sharp	50
1188*	" " " " blunt, Fowler's	60
1189*	" " " " " Webster's	30
1190*	" " " " straight	75
1191*	" " " " steel, sharp, 2 inches long, Kelly's	60
1192*	" " " " Set. Collin's, Trocar and Canulae (Fig. 1211, page 88)	1 25
1193*	Hypodermoclysis Needle, steel, three lengths, 2 in., 2½ in., 3 in., doz., \$3 50; each	35
1194*	" " " " with stop-cock, H. L. Northrop's	1 35
1195*	Aspirating Needle, steel, short, three sizes	30
1196*	" " " " long	50
1197*	Syringe for Spinal Anesthesia, Bier's, 2 c.c. capacity, with two long steel needles, each with obturator, in metal case	7 00
1198*	" " " " W. W. Babcock's, all glass, 2 c.c. capacity, with platinum needle 5½ inches long with obturator	6 50
1199*	Trocar for Lumbar Puncture, S. W. Sappington's, long steel needle with obturator	1 35
1200*	Needle " " " steel, with obturator, three sizes	1 25

All instruments illustrated are designated by a *

Section II.

**Hospital, Operating Room and Office
Furniture and Supplies.
Patients' Necessities.**

The Operating and Office Tables which we list on the following pages are constructed of Seamless Steel Tubing, securely and neatly fastened with steel pins and brazed. This is the method employed in the manufacture of high grade bicycle frames, and it makes the finished article at once aseptic, rigid and strong.

The enamel used is the very best, made to our order. Several coatings of it are applied with the brush, *not* dipped, each coating being rubbed smooth with pumice stone, and afterwards baked in a high temperature. The result is a solid coating of enamel, almost as glossy and firm as a porcelain surface.

The glass plates supplied are the best quality of selected Polished Plate with polished edges, and are more than sufficiently strong to withstand the usage they will be subjected to.

Besides our own manufacture, we carry the products of the most renowned factories which make a specialty of high class aseptic furniture. We warrant their goods the same as we do our own. The porcelain enamel table tops have all the aseptic properties of glass. They are made of special iron castings and coated with pure porcelain, which is vitrified and burnt onto the iron at a temperature of 1600° F. They will remain snow-white, and are practically indestructible, being temperature, ether and chloroform-proof.

Our premises are very roomy, enabling us to carry a very complete stock, so that we can fill all orders promptly. This refers especially also to Invalid Beds, Bath Tubs, and other Sick-Room Supplies, which are always kept ready for immediate shipment.

Hospital and Operating Furniture.



12202

12202.* Operating Table, improved Baldwin's

\$150.00

In this design we show the linear type of Baldwin table, constructed most carefully and most substantially throughout and white enameled. The top is thickly porcelain pane white enamel covered and hardened at high temperature, rendering it indestructible and aseptic.

The table offers the reverse Trendelenburg position, and includes the improved Lillenthal gallstone, stomach and kidney bridge elevator with bronze gears, the Cunningham sliding kidney posts, the Bierhoff adjustable knee crutches, an anesthesia screen with washable panel, and a shelf for drain pan.

12203. Operating Table, improved Baldwin's, like Fig. 12202, with the addition of leg-holders with straps, gynecological stirrups, adjustable shoulder supports, and a Mayo's instrument table with floor stand

150.00

12204. Operating Table, Baldwin's, similar to Fig. 12202, porcelain enamel top, with the improved Lillenthal gallstone, stomach and kidney bridge elevator, leg-holders with straps, adjustable shoulder supports, and a shelf for drain pan; choice of either plain top, or with longitudinal or with lateral drain

125.00

12205. Operating Table, Baldwin's, porcelain enamel top, with leg-holders with straps, adjustable shoulder supports and shelf for drain pan; choice of either plain top, or with longitudinal or with lateral drain

85.00

12212. Instrument Rack, Mayo's, with porcelain tray and nickel-plated rod, a, with adjustable collar for attaching to almost any operating table

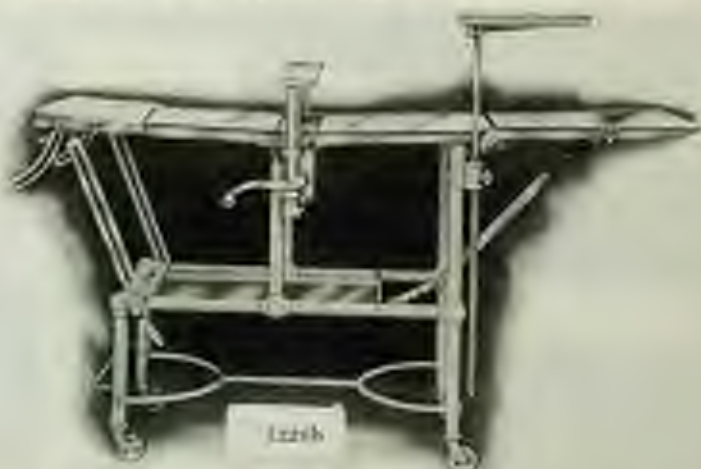
7.50

b, with white enameled floor stand

9.00

*All articles illustrated are designated by a **

Hospital and Operating Room Furniture.



1221b.* Operating Table, "Minnesota," nickel plated metal top, white enameled frame, mounted on large rubber casters \$130.00

This style of operating table is in use at St. Mary's Hospital, Rochester, Minn. It is constructed first-class throughout and offers practically every position necessary in modern surgery. It is provided with adjustable body elevator, goitre attachment, adjustable head piece, leg holders, Mayo's instrument rack, made of aluminum, and anesthesia screen.



1220c.* Operating Table, improved Baldwin's, porcelain enameled top, white enameled frame, with rubber gynecological stirrups or leg holders with straps, instrument shelf and shelf for drain pan. The various positions obtainable include the reverse Trendelenburg \$80.00

1220d. Operating Table, Baldwin's; like Fig. 1220c, with the addition of the improved Lilienthal gallstone, stomach and kidney bridge elevator with bronze gearings, and 16 shoulder supports \$115.00

(1220c)

Hospital, Operating Room and Office Furniture.



1226

1222* Operating Table, "University," all metal, white enameled, with stirrups and leg-holders \$37.50

Of light but substantial construction. The top is composed of three parts, which can be raised or lowered together or independent of each other, permitting the ready selection of either of a number of desirable positions. The end sections are made of sheet steel, the center one of malleable iron; the foot section is removable.

1226* Operating Table and Chair combined, "Moscow," all metal, white enameled, with head-rest, shoulder supports, stirrups and leg-holders \$45.00

In the "Moscow" we have an up-to-date, substantial and practical operating table at a medium price, and suitable for either operating room or office. It is constructed of strong seamless steel tubing, well beaced, with 2 1/2-in. rubber casters. The top is of heavy steel sheeting, in three parts; the center one is slotted for drainage, with a U-shaped cut-out at front, allowing freedom in the use of the speculum or other instruments in vaginal and rectal examinations. The foot-piece can be easily detached or attached, and is adjustable. The Trendelenburg position is obtained by means of a crank device.

*All articles illustrated are designated by A **

Hospital, Operating Room and Office Furniture.



1227

- 1227.* Operating Table and Chair combined, "Columbus," all metal, white enameled, including stirrups and leg-holders \$25.00
Cushion of imitation leather, two sections, \$5.00 extra.

The construction and working of this table is as simple as it is possible to make it; no part is likely to get out of repair, and it has no complicated mechanism whatever. The various positions are obtained quickly, easily, and with very simple contrivance. The workmanship and finish are first-class in every respect. Weighs about 200 pounds; the table is therefore readily transportable for use at patient's home.

1225. Operating Table, "Columbus"-Baldwin, all metal, white enameled; simple of construction, with stirrups and leg-holders \$5.00
1226. Operating Table, Isaacs', all metal, white enameled; similar in construction to No. 1225, with shoulder supports and stirrups 40.00

A large and well-selected line of Hospital and Office Furniture always in stock.

Visit our extensive salesrooms.

Special catalogues are furnished on application.

*All articles illustrated are designated by a *.*

Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work.

Hospital, Operating Room and Office Furniture.



1237



1239



Folded for Transportation

1237

1239

- 1237.* Operating Table and Chair combined, improved Junior; portable, folding, all metal, white enameled \$12.00
1238. Operating Table and Chair combined, same as Fig. 1237, including pair of stirrups and pair of leg-holders 16.00
- 1239.* Operating Table and Chair combined, same as No. 1238, with the addition of a half-gallon irrigator, with tubing, cut-off and rod, complete 18.00
- Cushion Pad, covered with rubber cloth, \$4.00 extra.

This table was designed to meet the requirements for a compact, folding, portable operating table, suitable for any operation away from the hospital, especially at the patient's home. The back section is long enough so that no extra head-rest is required when used as a chair, as the patient's head rests on the back. It is constructed of steel and malleable iron, well braced, making it strong and rigid. The whole table is finished in white enamel except the working parts, which are polished and nickel-plated.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Supplies.

ADJUSTABLE LEG HOLDERS AND STIRRUPS.



1241



1243



1250

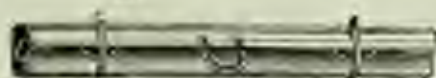
1240. Leg-holders, Edsbohl's plain, galvanized steel rods and strings, with leather stirrups. Can be attached permanently to any table \$4 50
- 1241.* Leg-holders, Lentz's modified Edsbohl's, steel, nickel-plated, with leather stirrups, and universal clamps for use on any table or side of a wooden bedstead. 7 00
1242. Leg-holders, Fig. 1242, with the addition of nickel-plated heel stirrups 9 50
- 1243.* Lentz's Adjustable Gynecological Stirrups, nickel-plated; can be attached permanently to any table 6 00
- 1250.* Improved Adjustable Gynecological Stirrups with universal clamps, nickel-plated 6 50
- 1251.* Adjustable Leg-holders, Edsbohl's, with universal clamps, nickel-plated 6 00
1252. Lithotomy and Gynecological Combination Stirrups, Edsbohl's, consisting of a pair of upright adjustable stirrups with straps and a pair of heel stirrups, with universal clamps 8 50



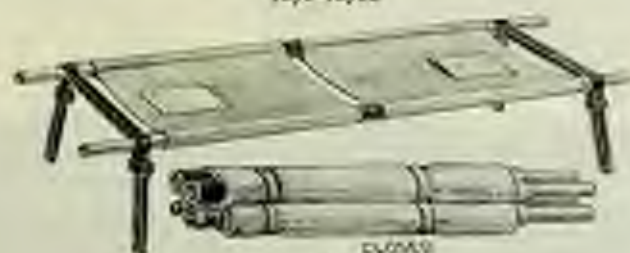
1251

*All articles illustrated are designated by a *.*

Hand Stretchers.



1272-1272a



1273



1274

- 1272.* Hand Stretcher, Reeves', flexible \$7.00
 1272a.* with canvas bag 8.00

Folds close to the body, making it possible to carry a patient conveniently through a narrow passage-way or on a winding stair-way where a rigid stretcher could not be used. Specially adapted for equipment of ambulance and police patrol. Indispensable also for institutions, naval and passenger ships, mines and industrial plants. In use at the numerous works of the Carnegie Steel Company. Some hospitals have adopted it "for use in case of fire only," distributed in the various corridors.

Fully opened it measures 76 x 26 inches; folded and rolled up it occupies a space of 60 inches in length and 6 inches in diameter. Weight only 8 pounds.

- 1273.* Hand Stretcher, Pilling's 15.00

A collapsible, portable stretcher that occupies little space when folded. Total length when connected for use, 88 inches; when taken apart and rolled up the bundle measures 44 x 7 x 6 inches. Very strong, rigid and light. In use by the Pennsylvania Railroad Company, mines, factories, etc.

- 1274.* Hand Stretcher or Litter, United States Army and Hospital pattern 2.00

In use by the Philadelphia & Reading Railway Co. (every baggage car equipped with one), by the Philadelphia & Reading Coal & Iron Co., and by other railroads, mines, etc.

Length, 90 inches; height, 6 inches; width, open 22 inches, folded 4 inches. Weight, 17 pounds.

All articles illustrated are designated by a *.

Hospital Wheel Stretchers.



1267



1268

1267.* Hospital Wheel Stretcher, aseptic, all metal, white enameled. \$60.00

The frame is constructed of wrought-iron pipe reinforced with malleable fittings. The forks supporting the wheels are hand forged. The wheels have clinched-in rubber tires, which are guaranteed not to work loose. The top is made of wrought-iron tubing and steel strips; it may be removed and will serve admirably as a carrying stretcher. The four wheels are swivelled, making it an easy matter to guide the stretcher in the desired direction.

1268.* Hospital Wheel Stretcher, white enameled, with oak top. \$85.00

The frame is of steel, so constructed as to withstand the severest usage. The wheels are made with clinched-in rubber tires, which are guaranteed not to work loose. The top is of selected oak with nickel-plated handles. A strong, durable stretcher, that will stand the roughest usage and give general satisfaction.

*All articles illustrated are designated by a **

Hospital Furniture.

WARD CARRIAGES. WALL STANDS.

- 1282* Ward Carriage,
with porcelain
enamel top
and shelf . . . \$45.00

Carriage is constructed of wrought iron tubing and cold rolled steel, finished in white enamel, hand-rubbed and baked. The wheels have clinched-in rubber tires that cannot work loose. The front wheels are swiveled, allowing the carriage to be guided easily in the desired direction. Size, 18 x 33 inches.

- 1282a. Ward Carriage,
with top and
shelf of $\frac{1}{8}$ in.
polished plate
glass, other-
wise like No.
1282 \$40.00

- 1282b. Ward Carriage
similar to No.
1282a, but with
the addition of
two adjustable
irrigator rods
and two con-
gallos irriga-
tors with
tubing and
Esmarch's ex-
suffs 47.50



1282



1283

- 1283* Wall Stand,
aseptic . . . 50.00

Frame of wrought iron
pipe, white enameled.
Shelves of snow-white por-
celain enamel. Size of up-
per shelves, 8 x 26 in.; lower
shelves, 12 x 26 in. Height,
57 inches. Rigid and strong;
durable, clean.

Hospital Beds, Maternity Cribs, Bed Screens.



1302* Hospital Bed,
white enameled, patent
fastening;
either 30 or 36
inches wide. . \$30.25
(Special prices to institutions.)

Made of seamless steel tubing, with chilled joints, dipped and baked with five coats of pure white enamel.

Provided with fracture bar and furnished with either National or woven wire fabric spring.

Height of head frame, 73 in.; of foot frame, 38 in.; of spring, 27 in.



1303* Hospital Bed,
white enameled, patent
fastening;
either 30 or 36
inches wide. . \$31.25
(Special prices to institutions.)

Provided with fracture bar and furnished with either National or woven wire fabric spring.

Height of head frame, 54 in.; of foot frame, 36 in.; of spring, 27 in.



1304* Multiple Crib for
Maternity
Ward; white
enameled;
with 4 cribs . \$25.00
Special sizes to order.

This novel carriage is a boon to every maternity ward, as it facilitates the work of the nurses, who can have several babies within easy reach and under their immediate care.

It has a tubular steel frame with chilled joints, dipped and baked with five coats of pure white enamel.

Provided with four strip-steel baskets, also enameled.

The frame is mounted on a set of easy-moving five-inch rubber casters.

1313. Mattresses, felt or hair. Supplied at lowest market rates.

1314. Pillows, feather or hair. Prices on application.

Hospital and Office Furniture.

INSTRUMENT CABINETS.



1318a



1317

- 1317.* Instrument Cabinet, aseptic, white enameled. The door, sides and back are fitted with double strength glass. The interior has four polished plate glass shelves, 16x20 in., with polished edges. At bottom a metal shelf is provided. Total height, 71 in.; width, 24 in.; depth, 20 in. Mounted on leather castors \$60 00
- 1317a. Instrument Cabinet, like No. 1317, but with only three glass shelves, with edges ground, but not polished 55 00
- 1318a.* Instrument Cabinet, aseptic, white enameled. The door and sides are fitted with double strength glass; the back is steel, white enameled. The interior has three polished plate glass shelves, 16x20 in., with ground edges. At bottom a metal shelf is provided. Total height, 50 in.; width, 24 in.; depth, 20 in. Mounted on castors 42 00
1325. Instrument Cabinet, aseptic, white enameled. Has two doors, each with a separate lock. The back and the underneath shelf are of heavy sheet steel. The interior has four polished plate glass shelves, 16x20 in., with ground and polished edges. Total height, 61 in.; width, 20½ in.; depth, 21 in. 105 00
- 1325a. Instrument Cabinet, like No. 1325, but has the edges of the glass shelves only ground, not polished 95 00

Special catalogue of Hospital and Office Furniture sent on application.

*All cabinets illustrated are designated by a *.*

Hospital and Office Furniture.

INSTRUMENT CABINETS.



1138



1142



1140



1147

- 1344.* Fig. 1138. Instrument Cabinet, aseptic, white enameled; back is of sheet steel; total height, 65 in.; dimensions of cabinet proper, 20 x 25 x 17 in. \$75.00
- 1345.* Fig. 1142. Instrument Cabinet, aseptic, white enameled; back is of sheet steel; height, 60 in.; width, 25 in.; depth, 18 in. 90.00
- 1346.* Fig. 1140. Instrument Cabinet, aseptic, white enameled; back is of sheet steel; height, 70 in.; width, 25 in.; depth, 17 in. 100.00
- 1347.* Fig. 1147. Instrument Cabinet, aseptic, white enameled, two doors; back is of sheet steel; height, 65 in.; width, 30 in.; depth, 17 in. 150.00

Special catalogues of Hospital and Office Furniture
sent on application

(All articles illustrated are designated by a *)

Hospital, Operating Room and Office Furniture.**INSTRUMENT AND DRESSING TABLES.**

- 1226.* Instrument Table. Top and shelf of thin malleable iron castings, heavily coated with pure porcelain enamel, rendering them aseptic and practically indestructible. The uprights are made of wrought iron tubing and have the cross-bars riveted through them, giving to the frame rigidity and strength; finished in white enamel. Mounted on lignum-vitæ rollers.

Size 15 x 29 in. . .	\$22 00	Size 18 x 33 in. . .	\$25 00
" 26 x 30 " . . .	20 00	" 24 x 36 " . . .	32 00

1225. Instrument Table, with top and shelf of polished plate glass; edges beveled and polished. Top held securely in place by means of neat claw corners. Frame of wrought iron tubing, finished in white enamel. Mounted on lignum-vitæ rollers.

Size 16 x 30 in. . .	\$15 00	Size 18 x 32 in. . .	\$18 00
Size 24 x 36 in. . .	\$25 00		

Special catalogues of Aseptic Furniture on application.

*All articles illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, polish and nickel plate, your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Hospital, Operating Room and Office Furniture.

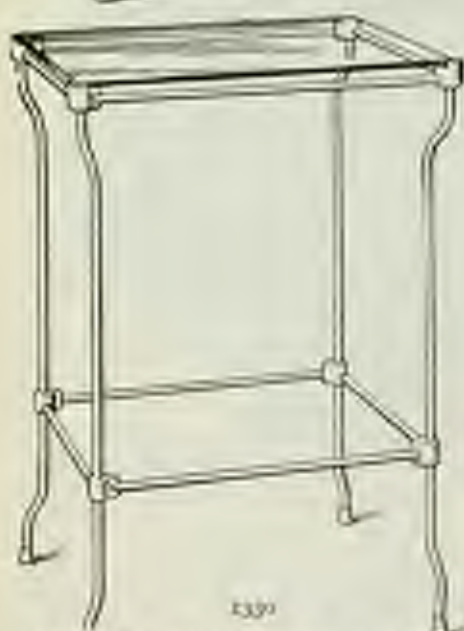
INSTRUMENT AND DRESSING TABLES.



1327



1328



1329



1330

- 1327.* Table for Instruments and Dressings, for ward and office use, iron, white enameled, with top and shelf of heavy polished glass plate with polished edges. Size, 15 x 19 in. \$7.50
- 1328.* Same, with glass top and two glass shelves. Size, 15 x 19 in. 9.00
- 1329.* Table for Instruments and Dressings, steel, white enameled; flanged corners to hold the glass in place; polished plate glass top 15 x 20 4.00
- 1330a. Same, with the addition of one plate glass shelf 5.50
- 1330b.* Same, with the addition of two plate glass shelves 6.50

Hospital and Office Furniture.

TREATMENT TABLES.



1333



1334

1333.* Treatment Table, aseptic, for nose and throat work.

Constructed of angle steel, white enameled, and mounted on ball bearing casters. Provided with glass top and glass shelf 26x20 in.; nickel-plated guard rails at sides, rack at back of top holding six four-ounce glass stoppered bottles, and copper tank hanging at side. This tank has six openings for Davidson atomizer bottles; it is intended to be filled with water, and can be kept warm by means of an alcohol lamp or gas jet.

No. 1, complete, with six four-ounce g. s. bottles, copper tank and six Davidson atomizers	\$20.00
No. 2, same, but minus the six Davidson atomizers	15.00
No. 3, same, but minus copper tank and Davidson atomizers	10.00

1334.* Treatment Table, aseptic, for nose and throat work.

Constructed of angle steel, white enameled, and mounted on ball bearing casters. Provided with glass top and glass shelf 28x28 in.; nickel-plated guard rails at sides, each having three clamps to hold Davidson atomizer bottles; and rack at back of top holding nine four-ounce glass stoppered bottles.

No. 1, complete with nine four-ounce g. s. bottles and six Davidson atomizers	\$6.00
No. 2, same, but minus the six Davidson atomizers	15.00

Other sizes of Treatment Tables made to order.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Furniture.

IRRIGATOR STANDS.



1340



1341



1342

- 1340.* Irrigator Stand, iron, white enameled, adjustable, light construction . \$6.00
1341. Irrigator Stand, iron, white enameled, adjustable, with one-gallon irrigator, tubing and Renarch's h. v. stop cock 10.00
- 1342.* Irrigator Stand, iron, white enameled, heavy base, adjustable; with two 1½-gal. irrigators with covers, tubing, nozzles, cut-offs and basin 18.00
- 1343.* Irrigator Stand, iron, white enameled, extra heavy base with large rubber casters, adjustable; with two 1½-gal. irrigators with covers, tubing, nozzles, cut-offs and basin. Irrigators are held in place by rigid iron semi-circular collars. Easily raised and lowered by worm gear and crank attachment 27.50
1344. Irrigator, glass, 1½ gal. with adjustable nickel-plated band and chain 2.75
1345. Irrigator only, glass, 1½ gal. 1.75
- Special catalogues of Acceptable Furniture on application.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Furniture.

BOTTLE STANDS.

IMMERSION WASHSTANDS.



1348



1357

- 1348* Bottle Stand, all iron and wash, white enameled, mounted on casters; with either wide neck or narrow neck crystal solution bottles of three gal. capacity each:
 With two bottles, \$27.00; with four bottles, \$39.00; with six bottles \$50.00
- 1356 Immersion Washstand, single form, iron frame, white enamel finish, with crystal glass bowl 15 in. deep and 7 in. diam. 9.00
- 1357* Immersion Washstand, triple form, revolving iron frame, white enamel finish, with three crystal glass bowls 9 1/2 in. deep and 9 in. diam. 22.00



1348a-c.

- 1348a* Chart Holder with clamp, white enameled per dozen, \$3.50; each .90
- 1348b* Chart Holder with clamp, aluminum; per dozen, \$10.00; each 1.00
- 1348c* Chart Holder with clamp, wood; per dozen, \$4.50; each .50
- 1348d. Temperature Charts, Wilson's, per package of 50 80
- 1348e. " " and Day Reports combined, per package of 50 80
- 1348f. Day Reports, Lentz's, per package of 50 80
- When ordering to be sent by mail, add 7c postage per package of 50.

*All articles illustrated are designated by a *.*

Hospital, Operating Room and Office Furniture.

WASHSTANDS.

BATH TUBS.



1350



1351

- 1350.* Washstand, single form, wrought iron frame, white enameled, on casters, with steel enameled basin \$5.00
1358. Washstand, double form, same as above, with two basins 8.00
- 1361.* Washstand, triple form, same as above, with three basins 10.50
1359. Washstand, revolving, with three 13 1/4 in. glass bowls of different colors; a glass soap container rests on the top of the central shaft; the whole is mounted upon a neat base on casters 30.00
1371. Bath Tub, steel-clad, lined with tin and planished copper; mounted on four 6 in. rubber tired wheels, with handle; draw-off tap fixed in bottom; four sizes—4 1/2 ft., \$40.00; 5 ft., \$42.00; 5 1/2 ft., \$45.00; 6 ft., 48.00
1372. Bath Tub, Bellamy's improved, steel-clad, copper lined; mounted on four strong iron rubber tired wheels, with handle, furnished with an adjustable steel mattress by means of which a single attendant can raise and lower the patient. A draw-off tap is attached to foot end of tub. Size, 6 1/2 feet 110.00
1373. Bath Thermometer, in square wood frame, 12 inches long 40
1374. " " " porcelain scale, in round wood frame, 12 inches long 75

*All articles illustrated are designated by a *.*

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Invalid or Fracture Bedsteads.



1170



1170a



1170b

- 1170* Crosby's Invalid Bedstead, iron, white enameled, with Head Rest, Woven Wire Springs and Soft Top Excellent Mattress (adjustable table not included) \$47 00
 African Fibre Mattress instead of Excellent Mattress \$2 00 extra.
 Curled Hair Mattress instead of Excellent Mattress 3 00 extra.
 Adjustable Table and Back Rest optional 5 00 extra.
- 1170a* Hammock Invalid Bedstead, folding, white enameled, with Head Rest, Woven Wire Spring Bottom, Hammock and extra quality Cotton Top Mattress 38 00
 Mattress for Hammock Bed, cotton top, \$5 00; curled hair, \$10 00.

These bedsteads are designed to give comfort and ease to those patients who are so exhausted by disease that it would be necessary to lift them from and to the ordinary bed; also to prevent bed sores and cure those already existing. In all cases of fractures, amputations, dysentery, acute rheumatism, the last stages of consumption and typhoid fever attended with great prostration and involuntary discharges, they afford easy access to the body—permitting the bedclothes to be changed, the bed to be made up, securing perfect cleanliness without fatigue or annoyance, and allowing defecation to be performed without moving the patient. Easily managed. Full directions accompany each bedstead.

We carry these beds in stock, ready for immediate shipment.

Rental: For temporary use of patients residing in our vicinity we have several beds which we rent at the rate of \$5.00 per month or fraction of month; transportation extra. New mattress may be ordered.

All articles illustrated are designated by a *.

Invalid or Fracture Bedsteads.

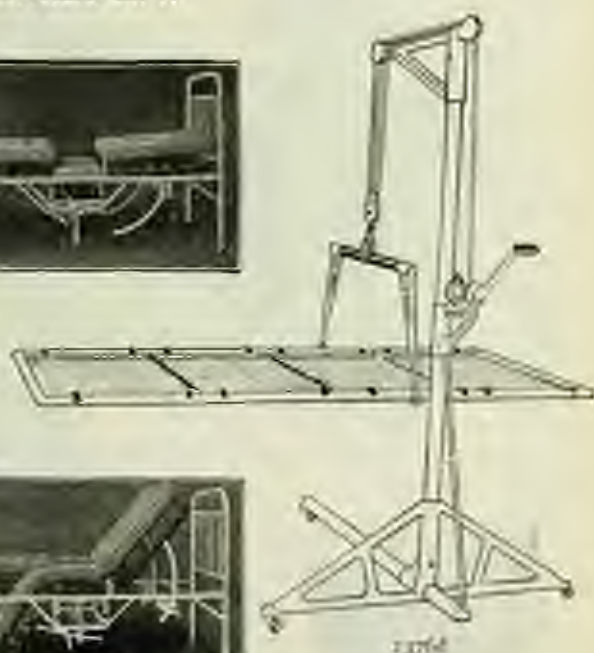
INVALID LIFT.



13705



13706



13708

- 13705.* Wallace's Adjustable Invalid Bed, iron, white enamel; mechanical devices (patented); with Box-Type Springs and Soft Felt Mattress, both in four sections \$60.00

It presents all the valuable features of the other invalid beds, with the addition of advantages not possessed by them. The Wallace bed renders practically every position obtainable in an operating table, without inconvenience to either patient or attendant. The middle section lowers for use of bed pan or douche.

The general construction of the bed permits of the freest and easy change to all the positions that are comfortable to the body, affording a boon to the convalescent and enabling the patient to sit up very gradually. It simplifies bathing of the patient and the changing of linen, as individual sheets are used for each of the four sections. The foot section is divided, so that each limb may be placed in the position desired for it.

Another of the prominent features of the Wallace bed is that it can be used as a Combination Bed and Chair, a feature which makes it appreciated among others by sufferers from asthma.

Rental: per month, \$3.00; transportation charges extra.

13706. Gekham's Invalid Bed with Spring Mattress (soft mattress not included) \$50.00

Rests on a tripod base and can be tilted to any desired angle. Easily managed. Circular on application.

- 13701.* Thompson's Bed Lift, thoroughly aseptic \$35.00

This form of apparatus is exceedingly useful in handling patients suffering from paralysis, rheumatism, dislocation, fracture, etc.; also in post-operative cases. It enables the nurse to attend to this patient's needs without any further assistance, and with such ease as to cause the patient no discomfort. The hammock, as shown in illustration, is supposed to be lying on a bed.

*All articles illustrated are designated by a **

Thermal Bath Cabinets.



1288



1291

1288*	Thermal Bath Cabinet, No. 1, with heater for alcohol	\$12.50
1289	" " " " No. 2, " " " "	2.50
1290	" " " " No. 3, " " " "	3.00
1291*	" " " " No. 4, reclining, with heater for alcohol	2.50

The free and intelligent use of hot-air and vapor baths is recommended by highest medical authorities as a natural promoter of health, a preserver of disease, for the induction of mental rest, abating nervous excitement, and a sure ally against increase or excess of weight.

Cabinet No. 1 is the best pattern, lined inside with same material as outside, which is the best rubber drill. The top is made of double-faced rubber drill, so that no cloth or framework can be seen. This cabinet can be squeezed off just like a bath tub and kept perfectly pure and clean.

Cabinet No. 2 is the same in construction and size as No. 1, but has no lining. The cloth side of the rubber goods is print, in place of white, and the frame is stained, which adds much to the appearance of the cabinet. The trimmings are all first-class. This cabinet is practical and durable.

Cabinet No. 3 is made of a good quality rubber drill and a steel wire frame.

Cabinet No. 4 is made in two sections, which makes it more convenient to handle; the frames are of wood and the material rubber drill.

Full directions accompany each cabinet.

*All articles illustrated are designated by a **

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Frazier-Lentz's Hot-Air Apparatus

FOR TREATMENT OF RHEUMATISM.



1377

1377* Frazier-Lentz's Hot-Air Apparatus, for the application of dry hot air for the successful treatment of cases of acute articular rheumatism, gonorrheal rheumatism, gout, traumatic arthritis, synovitis, tenosynovitis, fibrous ankylosis, fractures, sprains, dislocations, etc.

This latest form of apparatus, which we manufacture, and which has invariably given satisfaction, consists of a stout copper cylinder, 24 or 30 inches long by 16 inches diameter, with a flared longitudinal opening at bottom, under which is fixed a flange burner with series of small flues extending the full length of the opening and with one end projecting through frame to permit attachment of rubber tubing. (In the apparatus constructed for oil, provision is made for a blast lamp, which can be easily placed in position or removed.)

On one end of the cylinder there is a large door, which can be instantly opened, and on the other end is attached a flexible sleeve of cloth with a double drawstring and straps, so that it can be drawn firmly and closely around the limb. The sleeve is arranged so that heat can be applied to all parts of the body, viz., arm, shoulder, back, thigh, hip, abdomen, etc.

The upper two-thirds of the cylinder is lined with sheet asbestos, which is riveted directly against the copper. The lower third is also lined with asbestos. It is not attached directly to the cylinder, but is supported on three iron bars running the full length of the cylinder, and at a distance of about 1½ inches from it.

On this asbestos sheet rests a very thick magnesia cradle, stiffened and strengthened with iron bands and covered with a suitable material to prevent the limb from coming in actual contact with the magnesia. This cradle, therefore, perfectly insulates the limb from the direct action of heat from the burners, yet allowing free circulation of dry, hot air.

At the top of the cylinder are three openings. Through the center one a long easily readable thermometer protrudes, registering to 400° F. The openings on each side can be opened to any extent desired, and serve as vents for the rapid escape of moisture and permit renewal of the air.

Frazier-Lentz's Hot-Air Apparatus

FOR TREATMENT OF RHEUMATISM.

On account of the scientific construction of our apparatus, the moisture from perspiration of the patient's limb is not allowed to accumulate, but passes off immediately; it evaporates through the vents in the top of cylinder, and its place is taken by a fresh supply of dry, heated air. A constant and rapid circulation is thus kept up, allowing a higher temperature to be borne and preventing sweating.

The whole apparatus described rests upon a rigid iron frame with legs, bringing the cradle on a level with an ordinary chair. It is mounted on wheels, so that it can be readily moved into position.

The actual space required for the apparatus is 3 x 2½ feet, and with chair for the patient the total space is 3 x 4½ feet.

The Bunsen flames will bring up the desired temperature of 300° to 400° F. in about ten minutes at the ordinary gas pressure. The actual cost of running the apparatus is about 2 cents per hour. It is entirely portable, the total weight being less than 40 pounds. It is thoroughly well made and is far superior in durability and efficiency to some cheap tin apparatus on the market which have the heat applied at one end. The end of the cylinder is the position occupied by the fingers and toes of the patient, which are the parts most sensible to extremes of heat.

1377.	34 inch Apparatus, with Bunsen burner for gas	\$35 00
1378.	34 " " with oil-burning blast lamp	40 00
1379.	34 " " for both gas and oil	45 00
1380.	34 " " with specially constructed electrical heating attachment for either 110-volt direct, or 54 or 104-volt alternating current	55 00
1381.	30 " " with Bunsen burner for gas	40 00
1382.	30 " " with oil-burning blast lamp	45 00
1383.	30 " " for both gas and oil	50 00
1384.	30 " " with specially constructed electrical heating attachment for either 110-volt direct, or 54 or 104-volt alternating current	60 00

For treatment of joints only—ankle, knee, wrist or elbow—we have constructed an apparatus 12-inches in length, with no door, but with a sleeve at each end.

1385.	12 inch Apparatus, with Bunsen burner for gas	\$28 00
1386.	12 " " with oil-burning blast lamp	33 00
1387.	12 " " with specially constructed electrical heating attachment for either 110-volt direct, or 54 or 104-volt alternating current	43 00

We can furnish any of the above apparatus with a woven asbestos cloth sleeve and with cradle covered with the same material at an additional cost of \$6.50.

Estimates given for Apparatus of special size or shape.

We will send upon request reprint of article in the New York Medical Journal of May 27, 1905, by Dr. Clarence E. Skinner, on the "Local Dry, Hot Air Application in General Practice."

Disinfecting Apparatus.

LENTZ'S FORMALDEHYDE GAS DISINFECTOR.



1294

Our disinfector consists of a stout copper retort of four pints capacity, with funnel filling tube and level indicator, with stopper of special construction and inclined brass outlet tube of large bore, communicating by means of special flexible tubing with another and smaller brass tube, which is inserted through the keyhole of the room to be disinfected.

The solution in retort is heated by means of a special form of blast lamp, and the whole apparatus, which is entirely of copper and brass, is firmly braced together for convenience in carrying.

The whole apparatus, with the exception of the level indicator, is original with us, and the construction of the stopper of retort and outlet tubes is specially made to prevent throwing of liquid into the room, as there is considerable foaming during ebullition, caused by the glycerin added to the formaldehyde in solution. The brass outlet tube and the flexible communicating tube are both of large bore and are both inclined, so that any solution spasmodically regurgitated into the neck of retort may run back.

The special blast lamp used tends to cause rapid ebullition and the prevention of regurgitation by preventing the ascending and descending currents of liquid in retort interfering with each other. The burner gives a circle of flame of intense heat, with a cooler center. The tendency of the liquid in retort, therefore, is to rise at the sides of the vessel and to descend at the center.

Bacteriological tests of the most exacting nature have proven that the gas liberated from our disinfector is an absolutely thorough surface disinfectant, and that its penetrative power is unexcelled by any other generator on the market.

The entire disinfecting apparatus weighs, complete, six pounds when empty, and ten pounds when filled for use. It is therefore quite portable and is easily carried by the handle, the outlet tube being removed and clamped neatly at side of apparatus. Extreme height, 26 inches. Extreme width, 10 inches.

It is the most economical apparatus for practical work. All parts are interchangeable and can be replaced at small cost.

Used and recommended by hundreds of Boards of Health, Hospitals, Railroads, Schools, Physicians, Undertakers, etc.

- 1294.* Lentz's Portable Formaldehyde Gas Disinfector \$12 25
 1295. Disinfecting Solution, consisting of ten parts of 40% formaldehyde and one part of glycerin:

In quantities of 1 pint to 4 gallons (container extra) per lb.	25
In quantities of 5 to 50 gallons (container extra)	20
In carboy of 15 gallons (container \$2 00 extra, but returnable)	15

One gallon of this solution weighs 10 pounds.
 Printed instructions are attached to each apparatus.

Disinfecting Apparatus.



1302



1303



1306



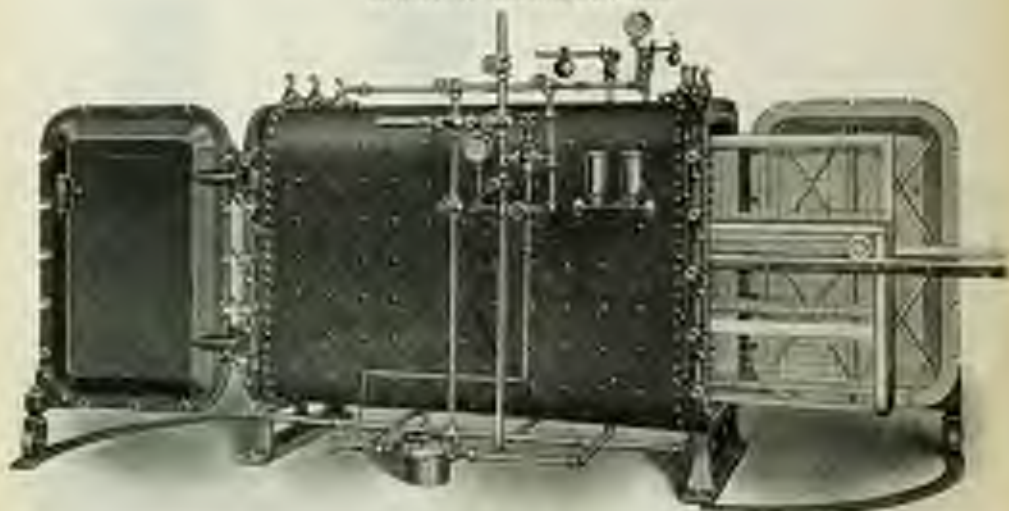
1307, No. 1

- 1302.* Formaldehyde Spray Apparatus, Stewart's, portable; tank 20 inches high, 7 inches diameter. The Philadelphia Board of Health uses several of them. \$25.00
- 1303.* Formalin Lamp, Schering's, including 40 pastils of formalin (paraform) 1.50
- 1306.* Formalin Disinfectant, blue enameled, with brass lamp, in box with handle (no pastils included) 4.00
- 1306a. Formalin Pastils, each one gram = 15.43 grains; box of 20, 25c; package of 5 boxes, \$1.25; tin of 250, \$1.75; tin of 500 3.50
1307. Formaldehyde Vaporizer, "Simplex"; useful for fumigating closets, bathrooms, etc.; No. 1, 8 oz. boiler, \$1.50; No. 2, 16 oz. boiler 2.00
May be used also as steam atomizer or as catheter sterilizer.
- 1308.* "International" Germ Destroyer, using Dr. Leininger's Standard Pure Solidified Formaldehyde. Simple of operation; just add a stated quantity of water and light the wick:
- | | |
|---|----|
| No. 0, will disinfect 1,000 cubic feet of space | 35 |
| No. 1, will disinfect 2,000 cubic feet of space | 60 |
| No. 2, will disinfect 4,000 cubic feet of space | 85 |

*All articles illustrated are designated by a *.*

Disinfecting Apparatus.

BEDDING DISINFECTORS.



- 1399* "American" Steam Pressure Disinfecter, Rectangular, with wing and locking device for doors and provided with the American-Vacuum formaldehyde and ammonia attachment for the thorough disinfecting of mattresses, pillows, bed clothing, treating apparel, etc.



- 1399a* "American" Steam Pressure Disinfecter, Cylindrical, with the American-Vacuum formaldehyde attachment, with single door.

Write for fully descriptive circular and prices.

(All instruments illustrated are designated by a *)

Invalid Chairs.



1411.



1400-1401.

- 1400.* Invalid Street Rolling Chair, oak wood, cased, stationary push handle; $\frac{3}{4}$ -inch rubber tire, iron front wheels:
 No. 1, with plain wooden or steel side wheels \$28 00
 No. 2, with $\frac{3}{4}$ -inch rubber tire, steel side wheels 34 75
- 1401.* Invalid Street Rolling Chair, oak wood, cased, stationary push handle; one-inch cushion tire, iron front wheels:
 No. 3, with one-inch cushion tire, steel side wheels 37 50
 No. 4, with pneumatic tire, steel side wheels 41 95
- Extras:* commode \$5.75; adjustable push handle, \$5.75; ball bearings in the four wheels, \$1.25; lacen canopy, lined, \$2.25; hand rims at side wheels, \$1.85.

Made in four widths:

Wide	extreme width 28 in., width of seat 18 in., height of back 28 or 32 in.
Medium:	" " 27 " " " 17 " " " 28 or 32 "
Narrow:	" " 26 " " " 16 " " " 28 or 32 "
Child's	" " 24 " " " 14 " " " 25 in.

When ordering specify extreme width and height of back. If not specified, we supply 28 inch width and 32 inch height of back.

1403. Invalid Street Rolling Chair, reclining, oak wood, cased. Extreme widths and widths of seat one inch larger than of Nos. 1400 and 1401. General construction same, except that it is provided with mechanism to adjust it to various positions. Add \$2.75 to prices of Nos. 1400 and 1401. If not specified, we supply 29 inch width.
- 1411.* Invalid Carrying Chair, folding; frame and removable carrying bars of oak wood; seat of carpet; bars can be adjusted to any angle for carrying on incline or level \$7 50

All articles illustrated are designated by a *

Invalid Chairs.*



1404



1407

1404.* Invalid Indoor Rolling Chair, reclining; oak wood, cased; hand rim at side wheels for propelling (as shown in Fig. 1407); divided independent leg rests, which are adjustable in length as well as in angle:

No. 1, with plain wooden or steel wheels	\$25 25
No. 2, with 1 inch cushion tire, steel wheels	35 50
No. 3, with 1 1/2 inch pneumatic tire, steel wheels	35 25

Extras: springs, \$2.25; commode, \$1.75; stationary push handle, 75c.; ball bearing in the three wheels, \$1.75.

Made in four widths:

Wide: extreme width, 29 in.; width of seat, 18 in.; height of back, 28 or 32 in.	
Medium: " " 28 " " " 18 " " " 28 or 32 "	
Narrow: " " 27 " " " 17 " " " 28 or 32 "	
Child's: " " 25 " " " 15 " " " 25 in.	

When ordering, specify extreme width and height of back. If not specified, we supply 28 inch width and 32 inch height of back.

1407.* Invalid Indoor Rolling Chair, reclining; oak wood, cased; hand rim at side wheels:

No. 1, with plain wooden or steel wheels	\$19 75
No. 2, with 1 inch cushion tire, steel wheels	20 00
No. 3, with 1 1/2 inch pneumatic tire, steel wheels	33 75

Extras and Sizes same as of No. 1404

All articles illustrated are designated by a *

Hospital Necessities.

RESTRAINTS.



1413



1416



1419



1415



1417



1420

- 1413.* Mitt, of drab canvas, light, durable and washable, with small buckle, including wrist strap and buckle. \$ 1.00
- 1415.* Mitts with wrist strap and patent lock buckle, complete. per pair 3.00
- The wristlet and upper part of palm are made of heavy russet leather, and lined with best of buckskin. The front and back of hand are of calf muslin, soft and pliable. Ventilation by perforation in the back. Attachment to wrist strap by two brass staples on each wrist, as shown in cut.
- 1417.* Muf, of drab canvas, light, same quality and attachment as No. 1413. \$ 5.00
- The hands are separated by a thickness of the canvas.
- 1419.* Wrist, Lintz's pattern, with wrist strap and patent lock buckle, complete. 8.00
- A new design, much superior to all the older styles, and made of russet leather. Its form is permanent. Permanent wristlets are attached and are fitted with buckles as to be adjustable to any size of wrist. These wristlets are turned on the edge and lined with best buckskin, as are also the seams in the muf. The most thorough ventilation is secured by perforations on the under surface and back.
- 1415.* Wristlets, adjustable, made of heavy russet leather, lined with buckskin, with wrist strap and patent lock buckle. \$1.50
- 1420.* Straight Jacket, long, made of heavy canvas for confining the violently insane. 6.00

*All articles illustrated are designated by a *.*

Hospital Necessities.

RESTRAINTS.



1423



1421



1422



1420

- 1423.* Anklets, best russet leather, lined with buckskin, with small or large buckles. \$6.00

There are two styles of anklets, one with small and one with large buckles. Those with small buckles do not become separated when detached from the patient, but are always together when required for use. They are adjustable to any size and are especially designed for day use. Those with large buckles may be used separate, and are best adapted for night use.

- 1424.* Bed Strap, Lynch's. 20.00
1425.* Restraint-Sheet and Straight-Jacket Combined, Hooper's, patented. 12.00

It is a decided improvement on anything of the kind that has ever been put on the market, and no establishment for the care of the sick or insane can afford to be without one or more of them.

It can be very easily and quickly adjusted to any bed, cot or surgical table; and while it holds the patient in such a manner as to make it a matter of utter impossibility for him to escape, it makes it equally impossible for him to expose his person or to do himself any injury. After the patient has been confined in the Restraint-Sheet and Straight-Jacket Combined he may be left alone if necessary, for it does not require the care and attention of a nurse or attendant to keep the Sheet in place. The strongest man is helpless as an infant once he is confined in the Sheet.

Made of heavy cotton duck, reinforced in two-, three- and four-ply, according to the strain put upon the parts, the whole being quilted with rows of stitching. The arm and ankle straps, as well as the neck and armbands, are lined with cotton flannel. An extra strap, which passes around the arm just above the elbow, is also provided.

The Sheet can be laundered and sterilized, thus fulfilling all hygienic requirements. It confines the patient in a position of absolute rest and does not interfere with a perfect circulation of the blood. Made in only one size.

- 1425.* Restraint Strap, of best russet belting, 28 to 36 inches long, with lock buckle. 3.00
Restraint Strap, of best russet belting, 48 to 54 inches long, with lock buckle. 3.25
Restraint Strap, of best russet belting, 62 inches long, with lock buckle. 3.50
1426.* Buckle, small, for fastening shoes and clothing. 80

All articles illustrated are designated by a *

Hospital Furniture and Patients' Necessities.

BEDSIDE TABLES. BACK RESTS. VACUUM BOTTLE.



1430



1432



1432 and 1435



1435

1430.* Bedside Table with adjustable top of polished oak:

- a. Black enamel finish
- b. White enamel finish
- c. Oiled

\$5 75
2 00
8 50

The stand is made of steel tubing, very strong, but light. The leaf is 18 x 24 in., of selected oak, nicely polished. Adapted for use over bed, lounge, chair, etc. The leaf can be adjusted in height, extended to reach middle of bed, and tilted either side to any angle.

1430d. Bedside Table, like Fig. 1430, but all-metal shell, white enamel, adjustable. 8 00

1430e. Bedside Table, like Fig. 1430, but oxidized copper, with white glass shelf 11 00

1432.* Back Rest, "Solid Comfort," ash wood frame:

- No. 1, without arm or head rests
- No. 2, with arm rests only
- No. 3, with head rests only
- No. 4, with both arm and head rests

2 50
3 00
3 00
3 50

1433.* Bed Tray, folding, oak finish, 15 x 25 in., 7 in. high. 2 75

1435.* Vacuum Bottle; keeps hot liquids hot for 30 hours; keeps cold liquids cold for 24 hours; mounted in nickel-plated case with gold lined cap. Pint size, \$3 50; Quart size 5 00

In case of breakage the bottles can be replaced at moderate cost.

All articles illustrated are designated by a *.

Hospital and Patients' Necessities. BED AND DOUCHE PANS, URINALS.



1452 A B C



1454



1454a



1453



1454a



1455



1456



1457-1458a



1455

1452a.*	Bed Pan, "Perfection" porcelain, small size, \$2.50; regular size	\$2.75
1452b.*	" " " " " " gray enameled steel ware	4.00
1452c.*	" " " " " " white enameled steel ware	4.75
1453.*	" " " " " " porcelain	1.25
1454.*	" " " " " " " " " " " "	1.75
1454a.*	" " " " " " " " " " " "	2.00
1454b.*	" " " " " " " " " " " "	1.25
1455.*	" " " " " " " " " " " "	2.25
1457.*	Bed and Douche Pan, white enameled steel ware	2.00
1458a.*	" " " " " " " " " " " "	1.75
1458b.*	Urinal, male, white enameled steel ware	1.25
1458c.*	" " " " " " " " " " " "	1.25
1459.*	" " " " " " " " " " " "	1.25
1460.*	" " " " " " " " " " " "	1.25
1461.*	" " " " " " " " " " " "	1.25
1462.*	" " " " " " " " " " " "	1.25
1463.*	" " " " " " " " " " " "	1.25
1464.*	" " " " " " " " " " " "	1.25

All articles illustrated are designated by a *.

Hospital and Operating Room Furniture.

STERILIZERS.



1473

1473. "American" Dressing Sterilizer. It represents the *summe of perfection* in the construction of pressure sterilizers on account of its simplicity of model, the selection of the best adapted materials and the highest grade of workmanship. These features insure the most practical, durable and economical apparatus which it is possible to make.

It is of the double cylinder type, with steam space entirely surrounding the sterilizing chamber except at disc end. There is no partition used in its construction, and with the independent steam generator it insures the highest efficiency. Mounted on white enameled tubular steel stand. Made in three classes and in six sizes.

The "American" Dressing Sterilizer is furnished as desired for either steam, gas, electric or kerosene heat. The prices quoted below are based on construction for either steam or gas heat.

CLASS "A." Ebonized steel door and end; cold drawn riveted copper shell (tinned inside) forming walls of sterilizing chamber; polished copper jacket; polished brass fittings.

CLASS "B." Standard Finish. Ebonized or shiny enameled bronze door and frame with copper end; seamless drawn brass or copper shell (tinned inside) forming walls of sterilizing chamber; jacket and all fittings highly polished and nickel-plated.

CLASS "C." Bronze, copper and brass construction throughout; exterior highly polished. Seamless drawn brass or copper shell (tinned inside) forming walls of sterilizing chamber; fittings highly polished brass.

Sizes and Prices.

	9x10 in.	12x20 in.	14x22 in.	16x24 in.	20x28 in.	24x32 in.
Class A	\$125 00	\$300 00	\$450 00	\$575 00	\$775 00	\$900 00
Class B	130 00	325 00	500 00	625 00	825 00	950 00
Class C	165 00	390 00	580 00	725 00	900 00	1025 00

Fully descriptive circular on application. Correspondence invited.

Hospital and Operating Room Furniture.

STERILIZERS.



1474

1474* "American" Water Sterilizer. In this type we present an entirely new construction. It is the only apparatus of its kind that is accessible in the matter of thorough cleaning. Other types may be "cleaned out" by removing the top, but it is impossible to clean them thoroughly. The "American" has a joint at the bottom and removable shell which permits of a thorough cleaning of coils, shell and bottom where sediment naturally settles. The shells are of seamless brass or copper with nicely rounded dome-tops, all in one piece. The whole apparatus is constructed of the best material and is of the highest class in workmanship. Mounted on white enameled tubular steel stand. Made in three classes and is suited for gas, steam, gas, electric or oil heating as desired. Prices quoted below are based on construction for either steam or gas heat.

CLASS "A." Highly polished cold rolled riveted copper reservoirs with oval tops; polished brass fittings; separate draw-offs.

CLASS "B." Standard Finish. Reservoirs of cold drawn seamless brass or copper shells, highly polished and heavily nickel-plated, tinned inside; bronze castings with nickel-plated brass fittings; combination draw-off.

CLASS "C." Reservoirs of cold drawn seamless brass shells, highly polished, tinned inside; bronze fittings; polished brass fittings; combination draw-off.

Sizes and Prices.

	5 gal.	15 gal.	20 gal.	25 gal.	50 gal.	75 gal.	100 gal.
Class A	\$250.00	\$275.00	\$325.00	\$400.00	\$600.00	\$750.00	\$900.00
Class B	175.00	200.00	275.00	450.00	675.00	825.00	1,000.00
Class C	200.00	250.00	425.00	500.00	750.00	850.00	1,000.00

Fully descriptive circular on application. Correspondence invited.

Hospital and Operating Room Furniture.

STERILIZERS.



1479

1479.* "American" Instrument Sterilizer. Made of extra heavy copper or brass of the highest quality, with seamless oval dome cover raised by side handle or foot lever. Interior and trays heavily tinned. Mounted on white enameled steel stand. Designed for heating by either steam, gas, electricity, kerosene, alcohol or gasoline. Four sizes. Prices quoted are based on construction for either steam or gas heat.

No. 2½; size of chamber, 6 in. deep, 10 in. wide, 20 in. long; with perforated tray;

finished in either copper or brass, \$45 00; . . . nickel plated \$50 00

No. 3; size of chamber, 7 in. deep, 12 in. wide, 22 in. long; with perforated tray;

finished in either copper or brass, \$55 00; . . . nickel plated 60 00

No. 4; size of chamber, 9 in. deep, 12 in. wide, 22 in. long; with one full and two half size perforated trays;

finished in either copper or brass, \$65 00; . . . nickel plated 75 00

No. 5; size of chamber, 10 in. deep, 16 in. wide, 24 in. long; with two full size perforated trays;

finished in either copper or brass, \$90 00; . . . nickel plated 100 00

1479a.* "American" Bowl and Utensil Sterilizer. The most perfect and easily operated apparatus made. No levers, gearing or windlass to handle, as the cover is operated hydraulically by means of foot pedal. Mounted on white enameled steel stand. Prices quoted are based on construction for either steam or gas heat.

No. 6; size of chamber, 20 in. deep, 20 in. wide, 24 in. long;

finished in either copper or brass, \$110 00; . . . nickel plated 120 00

No. 7; size of chamber, 20 in. deep, 24 in. wide, 30 in. long;

finished in either copper or brass, \$120 00; . . . nickel plated 130 00

No. 8; size of chamber, 24 in. deep, 24 in. wide, 30 in. long;

finished in either copper or brass, \$130 00; . . . nickel plated 140 00

Complete descriptive circular on application.

Prices on Combination Office or Single Stand on application.



1479a

Hospital, Operating Room and Office Furniture.

STERILIZERS.



1487.* "Scanlan" Dressing Sterilizer. It represents the latest improvements in low pressure apparatus, having a perfect circulation, and therefore a positive penetration, insuring absolutely sterile dressings.

Made of heavy cold-rolled copper, polished and nickel-plated. Inner cylinder coated with pure tin. Fittings of brass, nickel-plated. Equipped with water gauge. Perforated copper shelf. Mounted on white enameled tubular iron stand. Two sizes:

No. 1, size of chamber 14 x 16 inches; for gas or gasoline heat	\$65 00
No. 2, size of chamber 18 x 22 inches; for gas or gasoline heat	95 00
for steam heat	110 00

1488.* Office Water Sterilizer. Made of copper, nickel-plated. Combination water gauge and draw-off faucet. Mounted on white enameled tubular iron stand; equipped with either gas or gasoline burner. Two sizes:

Three-gallon size	16 50
Five-gallon size	21 25

Write for Special Catalogues of Sterilizers.

All articles illustrated are designated by a *.

Hospital, Operating Room and Office Furniture.

STERILIZERS.



1489a

1489. "Rochester" Sterilizing Outfit, on white enameled stand, with Benson gas burner under each sterilizer.

Hospital sizes: Instrument Sterilizer, 24 x 12 x 7 in.; Dressing Sterilizer, 22 x 10 x 10 in.; Water Sterilizer, 5 gallons.

Physicians' sizes: Instrument Sterilizer, 17 x 8 x 6 in.; Dressing Sterilizer, 16 x 6½ x 7 in.; Water Sterilizer, 3 gallons.

- 1489a. Four-Piece Outfit, consisting of Instrument Sterilizer, Dressing Sterilizer and two Water Sterilizers:

Polished copper, hospital size, \$110.00; physicians' size	\$60.00
Nickel-plated, " " 122.00; " "	65.90

- 1489b.* Three-Piece Outfit, consisting of one each Instrument Sterilizer, Dressing Sterilizer and Water Sterilizer:

Polished copper, hospital size, \$90.00; physicians' size	45.00
Nickel-plated, " " 100.00; " "	50.00

- 1489c. Two-Piece Outfit, consisting of Dressing Sterilizer and Water Sterilizer:

Polished copper, hospital size, \$65.00; physicians' size	35.00
Nickel-plated, " " 77.00; " "	38.50

Special Catalogue of Sterilizers on Application. Correspondence invited.

*All articles illustrated are designated by a *.*

Hospital and Office Supplies.

STERILIZERS.



1481



1482

1481.* Sterilizer, "Rochester" portable combination pattern.

This sterilizer is so constructed that dry heat or steam can be turned into the sterilizing chamber at will by simply opening or shutting a valve. Thus instruments and dressings can be heated by hot air up to about 212° F., then steam can be turned on, and after the articles are sterilized they can be thoroughly dried off again. It is very simple, consisting only of a removable base on which is set a double walled box, the outer wall of which rests in a groove or water joint on the base. It contains two removable wire cloth racks, one for instruments and the other for dressings, etc. The steam is introduced at the top of the sterilizing chamber and passes out of a tube at the bottom into the base again. There is an opening at the top in which a thermometer can be placed if desired.

No. 104, 14	in. long, 6	in. wide, 6	in. high, heavy tin, copper bottom.	\$6 00
No. 106, 16	" " 6 1/4	" " 7	" " " " "	7 00
No. 108, 18	" " 7 1/2	" " 8	" " " " "	8 00
No. 107, 2 1/2	" " 3 1/2	" " 3	" " polished copper, tin-lined.	7 00
No. 110, 10	" " 4 1/4	" " 4 1/4	" " " " "	9 00
No. 111, 14	" " 6	" " 6	" " " " "	15 00
No. 116, 16	" " 6 1/4	" " 7	" " " " "	17 50
No. 118, 18	" " 7 1/2	" " 8	" " " " "	20 00
No. 122, 22	" " 10	" " 10	" " " " "	40 00

Nickel-plating \$1, \$1 25, \$1 50, \$2, \$2 50 and \$5 extra, according to size.

1482.* Sterilizer, "Rochester" portable combination pattern, same model as No. 1481, fitted with the Prometheus system of electric heating.

No. 107 1/2, 7 1/2	in. long, 3 1/2	in. wide, 3	in. high, polished copper, tin-lined	\$28 00
No. 110 1/2, 10	" " 4 1/4	" " 4 1/4	" " " " "	22 00
No. 114 1/2, 14	" " 6	" " 6	" " " " "	30 00
No. 116 1/2, 16	" " 6 1/4	" " 7	" " " " "	35 00
No. 118 1/2, 18	" " 7 1/2	" " 8	" " " " "	40 00
No. 122 1/2, 22	" " 10	" " 10	" " " " "	65 00

Nickel-plating \$1, \$1 25, \$1 50, \$2, \$2 50 and \$5 extra, according to size.

Write for complete catalogue of "Rochester" Sterilizers.

NOTE:—For gas and alcohol burners, and for stands, see page 141.

*All articles illustrated are designated by a *.*

Hospital and Office Supplies.

STERILIZERS.



1508* Sterilizer, portable, for instruments; polished copper, tinned inside; perforated tray; size, 15 x 3 x 3 inches

\$2 95



1513* Sterilizer, portable for instruments, with telescoping lid; polished copper, tinned inside; perforated tray; size, 15 x 3 1/2 x 3 1/2 in.

4 80



1512* Sterilizer, portable, for instruments; polished copper, tinned inside; perforated tray; supported on folding legs. Fits snugly into lower compartment of Bags Nos. 4068 A, B and C.

Size 15 x 6 x 3 inches

4 60

Size 17 1/2 x 6 x 3 inches

5 00



1517* Sterilizer, portable; Gasmann's. Bottom and lid are machine stamped from sheet brass; no leaks from soldered or riveted joints. Supported on folding legs. Polished and heavily nickel-plated. Size, 17 1/2 x 6 1/2 x 3 inches. Including wire gauge tray and an improved three-burner alcohol lamp.

12 00



1519* Electric Heater, with attaching (directions furnished); suitable for any sterilizer or other vessel in which water is heated except aluminum and enameled ware; for both direct and alternating currents of 110 or 220 volts; appendage, 4 to 14. Specify dimensions of sterilizer.

4 50



1519a* Heat Unit Removal for Fig. 1519

35

All articles illustrated are designated by *

Hospital and Office Supplies.

STERILIZERS.



1500



1505



1506

- 1500⁵ Sterilizer, Frank-
lin's, copper,
nickel-plated; with
Bunsen burner,
valve to drain the
water, and venti-
lator in lid for
the escape of
steam, including
perforated tray
and 6 ft. rubber
covered gas tubing
small size,
12 x 5 x 3 in. \$12.00
large size,
15 x 6 1/2 x 4 1/2 in. 16.00
extra large, 18 x 6
x 6 in.; double
Bunsen burner;
water gauge 27.75
- 1504⁵ Sterilizer, electrical, "Simplex," copper, nickel-plated, no flame, including
perforated tray and 5 ft. coiled cord with connector. Very con-
venient and economical. Specify whether for direct or alternating
current, also voltage:
8 x 11 1/2 x 2 in. no handles, with lamp socket plug 10.00
10 x 14 1/2 x 2 in. with handles and lamp socket plug 12.00
13 x 16 1/2 x 2 1/2 in. with handles, no plug 14.00
- 1505⁵ Sterilizer, "Phila." for the specialist. Upright form, copper, nickel-plated;
with a circular Bunsen burner, and in addition with a small plate
which may be kept burning constantly and which insures just
enough heat to keep the water hot.
extreme height, 10 in.; diameter of base, 8 in. 12.00
- 1506⁵ Sterilizer, "EXL," copper, nickel-plated; with Bunsen burner, perforated tray,
and full length Bunsen burner, mounted on base three inches high;
small size, 8 x 6 x 2 inches 7.90
medium size, 12 x 7 x 3 inches 9.75
large size, 16 x 7 x 4 inches 12.50

All articles illustrated are designated by A.

Hospital and Office Supplies

STERILIZER STANDS.

HEATERS.



1502A



1500



1501



1530



1512



1532



1524

- 1500.* Sterilizer Stand, folding, made of iron, black finish; size, 11 x 35 x 5 inches \$0.60
- 1501.* " " with gas burner; made of iron, black finish; three heights; 8 1/2 inches, \$1.75; 12 inches, \$1.85; 15 inches, 2.00
- 1530.* Alcohol Lamp, "Rochester," with folding supports - iron, \$1.00; copper, 1.50
- 1532.* Gas Burner, "Gem" - single, 75c.; double, 1.50
- 1502A. Blast Lamp, "Jewel"; made of brass, and so constructed as to be non-explosive; it is capable of producing very high temperature; burns any grade of kerosene oil; capacity, one quart 4.00
- 1523.* Alcohol Stove, "Norma," nickel-plated:
No. 1, capacity one pint, with one burner 3.50
No. 2, capacity one quart, with two burners 7.00
- 1524.* Electric Stove, "Simplex"; mounted on crumpled slate base, provided with regulating switch for the selection of either of three degrees of heat; with 6 ft. conducting cord. Specify whether for direct or alternating current; also voltage.
4 1/2 in. diam., \$6.00; 6 in. diam., \$8.00; 7 in. diam., 9.00
- 1524A. Forceps for removing instruments from sterilizers:
Plain ring handle, 10 inches long 1.75
Three pronged, large, 12 inches long 2.75
Van der Poel's, 12 inches long 3.50

All articles illustrated are designated by a *.

Hospital, Physicians' and Patients' Supplies.

WATER FILTERS AND STILLS.



Hospital, Operating Room and Office Supplies.

TRAYS, BOWLS, FLASKS.



1543



1550



1551



1622



1594



1610

1543.* Glass Trays, long form, clear crystal, straight walls.

Size, 5 x 3 in.; depth, 1½ in.	\$0.50	Size, 10½ x 6½ in.; depth, 2¼ in.	\$1.50
" 6¾ x 4¾ " " 1½ " "	.85	" 12 x 7 " " 2½ " "	2.00
" 9 x 4¾ " " 2 " "	1.00	" 13½ x 8½ " " 2¾ " "	2.65

1550.* Glass Bowls, finest stout glass, rounded walls, flat bottom and polished edges; made in three colors for easily distinguishing different antiseptic solutions.

Diameter, 7½ in.; crystal,	\$0.70;	blue,	\$0.85;	ruby,	1.50
" 9½ " "	1.00;	" 1.30;	" 2.40		
" 11½ " "	1.65;	" 1.80;	" 3.15		
" 13½ " "	2.70;	" 3.00;	" 4.75		

1551.* Glass Immersion Bowl, finest stout glass, wide form, for two arms; 16 in. diameter, 8 in. deep. crystal, \$5.00; amber, \$5.50; blue 5.75

1594.* Glass Immersion Bowl, tall conical form, for arm; 16 in. deep, 9 in. diameter. crystal 3.50

1610.* Flushing Flasks, glass, conical form, for sterile solutions.
1 quart, 35c.; 2 quart 55

1622.* Glass Spoons, with flange ¾ in. diameter.
Per dozen—1 in., 50c.; 1½ in., 50c.; 1¾ in. 75

1622.* Iodoform Dusting Box, hard rubber 50

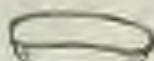
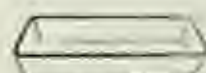
1624.* " " metal, plated; Fowler's 60

All articles illustrated are designated by a *.

Hospital, Operating Room and Office Supplies.

WHITE ENAMELED WARE.

Enamelled steelware is made in many grades. The cheaper grades are very unsatisfactory, as the enamel is poorly turned and will chip, while the best, "such as on stock," are beautiful and durable, yet reasonable in price.



1543* Instrument Trays, white enameled,
wood

[illegible]

Solation Downs, white enameled steel

1996*			1997*		
Regular form			Deer form		
6 1/4 in.		\$0.30			\$0.30
8		35			40
9 1/4		40			60
11		50			80
11 1/4		55			1.00
11 1/2		65			1.10
11 3/4		80			1.20
12		1.00			1.60

1983.* Pm. Basins, white
enamel, steel.

6	21	30
7	"	40
8	"	45
9	"	50
10	"	55
12	"	60

1539* Trichostema, white
cracked steel

17% qt.	Chemical	Price
2	-	\$0.00
3	-	1.00
4	-	1.20
5	-	1.40
6	-	1.70

1988.^a Graduated. Mean
ages, white, on

500	gram	\$0.50
250	"	.30
500	"	1.00
1,000	"	1.25
2,000	"	2.00

1992.⁸ Solanaceae Pitchera,
white, not marked

	water	concrete
	steel	
2 qt		5c 00
3 "		1 30
4 "		1 80
8 "		3 70

1354^d Dressing Pail,
white enamel

	Waste classified steel			
# qt.	\$1.20	with bal	\$1.50	
92 "	1.30	"	1.65	
92 "	1.30	"	1.60	

1935* Catheter Tray
which included

Small, 8 in.	\$3.50
Medium, 12 in.	75
Large, 16 in.	90

18823*	Pin. Thin white enameled, steel, triangular	\$1.00
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1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	2101	2102	2103	2104	2105	2106	2107	2108	2109	2110	2111	2112	2113	2114	2115	2116	2117	2118	2119	2120	2121	2122	2123	2124	2125	2126	2127	2128	2129	2130	2131	2132	2133	2134	2135	2136	2137	2138	2139	2140	2141	2142	2143	2144	2145	2146	2147	2148	2149	2150	2151	2152	2153	2154	2155	2156	2157	2158	2159	2160	2161	2162	2163	2164	2165	2166	2167	2168	2169	2170	2171	2172	2173	2174	2175	2176	2177	2178	2179	2180	2181	2182	2183	2184	2185	2186	2187	2188	2189	2190	2191	2192	2193	2194	2195	2196	2197	2198	2199	2200	2201	2202	2203	2204	2205	2206	2207	2208	2209	2210	2211	2212	2213	2214	2215	2216	2217	2218	2219	2220	2221	2222	2223	2224	2225	2226	2227	2228	2229	2230	2231	2232	2233	2234	2235	2236	2237	2238	2239	2240	2241	2242	2243	2244	2245	2246	2247	2248	2249	2250	2251	2252	2253	2254	2255	2256	2257	2258	2259	2260	2261	2262	2263	2264	2265	2266	2267	2268	2269	2270	2271	2272	2273	2274	2275	2276	2277	2278	2279	2280	2281	2282	2283	2284	2285	2286	2287	2288	2289	2290	2291	2292	2293	2294	2295	2296	2297	2298	2299	2300	2301	2302	2303	2304	2305	2306	2307	2308	2309	2310	2311	2312	2313	2314	2315	2316	2317	2318	2319	2320	2321	2322	2323	2324	2325	2326	2327	2328	2329	2330	2331	2332	2333	2334	2335	2336	2337	2338	2339	2340	2341	2342	2343	2344	2345	2346	2347	2348	2349	2350	2351	2352	2353	2354	2355	2356	2357	2358	2359	2360	2361	2362	2363	2364	2365	2366	2367	2368	2369	2370	2371	2372	2373	2374	2375	2376	2377	2378	2379	2380	2381	2382	2383	2384	2385	2386	2387	2388	2389	2390	2391	2392	2393	2394	2395	2396	2397	2398	2399	2400	2401	2402</
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[illegible]

1852.*	<i>Sphenium</i> (sp.)	—	—	with hinged lid. 4½ in. diam.	60
1853.*	<i>Heedera</i> " "	"	"	"	"

	Peculiar	"	"	"	to cat . . . small, doc.; large	B.
born.	Needle Bisc.	"	"	"	l-l	

We allow a liberal discount to Hospitals in our pricing policy.

We allow a liberal discount to Hospitals in quantity orders.
All articles illustrated are designated by a *.

Hospital, Operating Room and Office Supplies.

GLASS JARS.



1600

1600* Cylinder Jars, crystal glass, with knobbed glass cover overlapping jar.

Diameter.	Height.	
4 in.	4 in.	\$0.75
4 3/4 "	4 3/4 "	1.00
6 "	6 "	1.35
7 "	8 3/4 "	2.35
8 3/4 "	8 3/4 "	2.65
8 3/4 "	11 "	3.35
8 3/4 "	12 "	4.00
10 "	10 "	4.75



1604

1604* Needle Box, oblong, metal, nickel plated, with rounded corners; size 3 1/2 x 2 x 1 1/2 in., without needles. \$0.75

Case has spiral spring rack for holding needles.

BICHLORIDE SOL.
I-500

1000 CUBIC
1605

We keep on hand the following Labels:

Bichloride Solution, 1	500	Carbolized Solution, 1	20
" "	1000	" "	40
" "	2000	" "	60
" "	3000		

NEEDLE BOXES.



1601

1601* Cylinder Jars, crystal glass, with round knobbed glass cover overlapping jar.

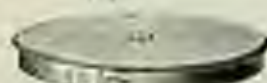
Diameter.	Height.	
4 in.	4 in.	\$0.50
4 3/4 "	4 3/4 "	.75
6 "	6 "	1.00
8 3/4 "	8 3/4 "	1.90
8 3/4 "	11 "	2.70



1602

1602* Needle Boxes, glass, round, with glass cover loosely fitting.

Diameter.	Height.	
2 in.	1 1/2 in.	\$0.25
2 1/4 "	1 3/4 "	.30
3 1/4 "	1 3/4 "	.50



1603

1603* Needle Box, round, metal, nickel plated, with bayonet fittings, lined top and bottom with asbestos, rack is removable; 3 in. x 1 1/2 in. \$0.65

1605* Floating Labels, Roll's, enclosed in a sealed glass tube floating on the surface of solutions. each, 100; dozen \$1.00

Sterilized Water
Distilled Water
Normal Salt Solution
Permanganate Sol.

Hospital, Operating Room and Office Supplies.

OPERATING PADS AND GLOVES.



Operating Pads, Kelly's, With Inflatable Rim, Best Quality Maroon-Colored Rubber.

1630.*	Small size, round; for perineal, cervical, and rectal operations; width, 24 in.; length, 24 in.	\$4.25
1631.*	Medium size, round; for general surgical work; width, 20 in.; length, 44 in.	5.50
1632.*	Large size, round; for ovariotomy and obstetrical work; width, 20 in.; length, 44 in.	6.50

Operating Pads, Morrison's Improved Kelly's.

They have no space nor crevice between the inflatable rim and the pad; can be used on either side, and are very easily cleaned.

1633.*	Small size; width, 17 in.; length, 34 in.	\$4.60
1635a.*	Medium size; width, 20 in.; length, 44 in.	5.75
1635b.*	Large size; width, 24 in.; length, 44 in.	6.75
1637.*	Obstetrical size; width, 20 in.; length, 33 in.	8.50

1642.*	Edwards' Nephrorrhaphy Cushion, soft rubber, 18 in.	4.00
1639.*	Finger Cots, soft rubber, standard, padded, medium	per doz. 50
1640.	do. " " " " " " " " " " " "	40
1641.*	Rubber Gloves, soft rubber, medium weight, with gauntlets	per pair 90

NOTE.—Prices of Rubber Goods subject to change, on account of fluctuation in cost of crude rubber.

All articles illustrated are designated by a *.

Hospital, Operating Room and Office Supplies.

SURGEONS' APPAREL.



1645



1646



1649



1647a



1648



1647d

- 1645.* Operating Gown, von Bergmann's pattern, with either long or short sleeves; bleached drilling; length, 50 to 60 in.; state chest and length measures. \$1.75
- 1646.* Operating or Office Coat, white drilling, bleached and shrunk. 1.50
Gave circumference at axilla, and distance from centre of back to wrist.
1647. Operating Apron, white rubber cloth, light; length, 30 and 34 in. 1.50
- 1647a.* " Hood, gauze, Mayo's per doz., \$1.00; each, .35
- 1647c. " Skull Cap, white drilling; state size of head 50
- 1647d.* " Cap, soft rubber, to prevent blood from getting into hair 90
- 1648.* Contagious Disease Gown, with long sleeves and hood to go over head; state chest measure and height. 2.50
- 1649.* Contagious Disease Combination Suit, brown covert cloth, washable. It is large enough to slip on loosely over ordinary clothing. White cotton gloves and handkerchief included. Made in three sizes:
- | | | | |
|---------|----------------------|----------------------|------|
| small; | chest, 38 to 42 in.; | length, 66 to 68 in. | 3.00 |
| medium; | " 40 to 44 " | " 68 to 70 " | 3.00 |
| large; | " 42 to 46 " | " 70 to 72 " | 3.00 |

All articles illustrated are designated by a *.

Office Furniture. OPERATING AND TREATMENT TABLES.



1669.* Examining Table, now made with square legs of oak; "Early English" finish, with stirrups; low priced, but practical and substantial.

\$13.50



1670.* Examining Table, "Philadelphia." It renders all the positions used in general office practice. The stirrups and leg-rests can be raised by ratchet to any desired height. The head-rest is adjustable to any angle. The back-rest elevates from prone to chair position. The table is finished in either light, medium, dark or mission oak; metal parts nickel-plated or oxidized copper.

With cushion and pillow of pontonote.
" " " " leather.
If desired with drawer, \$5.00 extra.

30.00

35.00



1671.* Osteopathic Treatment Table, made of oak, upholstered. Constructed in very substantial manner and of best workmanship. Length, 72 inches; width, 23 inches.

No. 1, with extra heavy legs, 5 in. diam.; adjustable headrest . . .	30.00
" 2, " heavy legs, 4 in. diam.; adjustable headrest . . .	18.00
" 3, " " " " " stationary . . .	15.00
" 4, " " " " " plain flat top . . .	14.00

1672. Osteopathic Treatment Table, folding, for use at patients' homes; strong and durable. Weight, 35 lbs. 6.00

*All articles illustrated are designated by a *.*

Section III. Eye Instruments.
Section IV. Ear Instruments.
Section V. Nasal Instruments.
**Section VI. Mouth and Throat
Instruments.**

We have endeavored to present in these sections a fairly complete variety of the standard and latest designs of instruments for the use of the specialist and of the general practitioner.

Special attention we desire to direct to the delicate instruments on which the success of an operation so frequently depends. Our thoroughly trained mechanics make them most accurately from select material, and they are perfect in every detail including the final sharpening and honing, every instrument being tested thoroughly before leaving our establishment. Our stock is very large and we are in position to furnish immediately nearly every instrument listed, as well as the newer patterns as they are brought forth from time to time.

Our well-equipped factory is at your command for the production of any special instrument which you desire made.

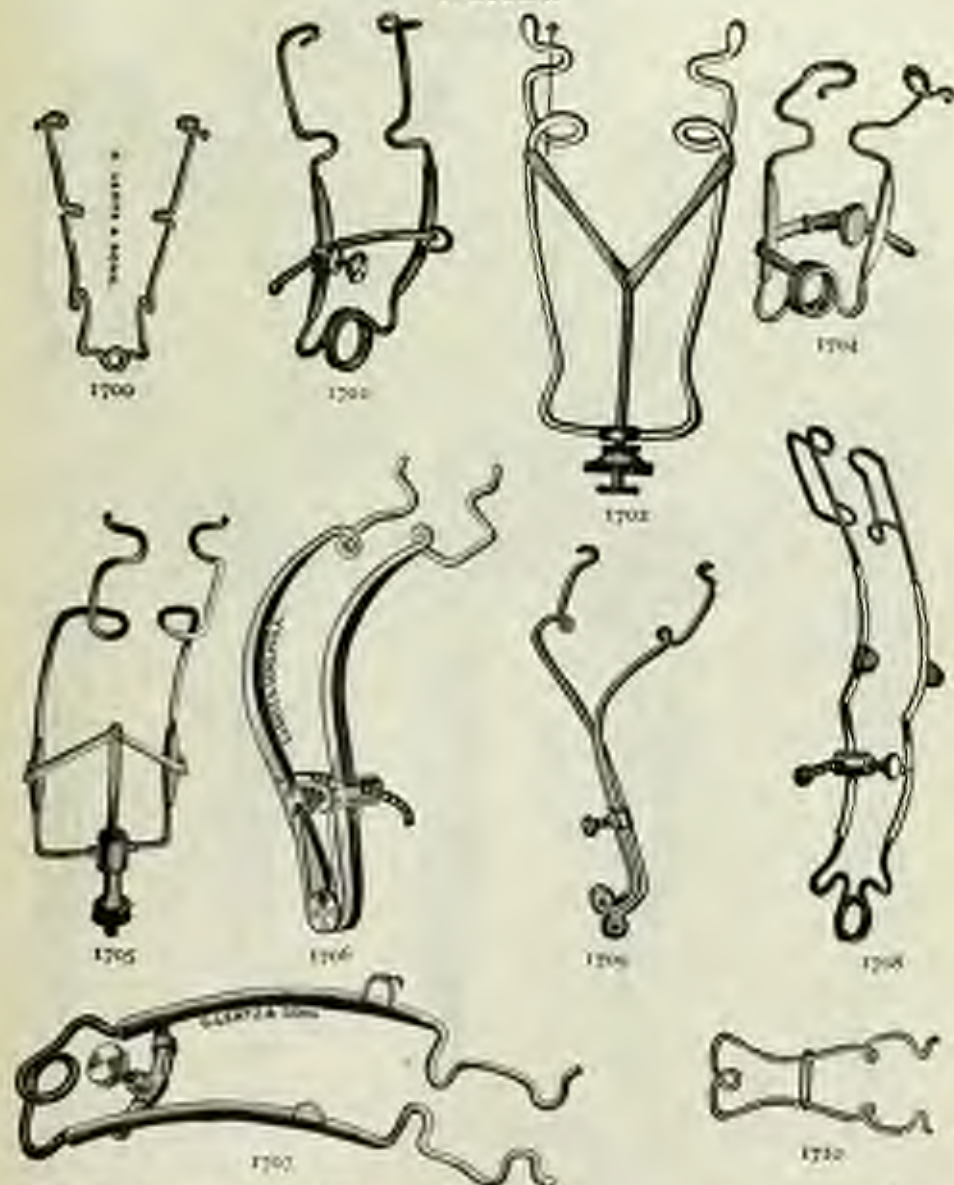
Repairing, grinding, honing, nickel plating, we do in the best of manner and at shortest notice.

Of office equipment also we have a fully representative line which we are eager to demonstrate to those who can visit our show-rooms.

Section III.

Eye Instruments.

SPECULA.



1700.*	Eye Speculum, plain wire		\$ 30
1701.*	" " " " with set screw		75
1702.*	" " " " Noyes' Improved		25
1703.	" " " " Pansa's, parallel bars		30
1704.*	" " " " Lieberich's		50
1705.*	" " " " Galante's		50
1706.*	" " " " Fox's		60
1707.*	" " " " Snowden's Improved		50
1708.*	" " " " Gause's, right and left	each	50
1709.*	" " " " Liebold's		50
1710.*	" " " " Noyes' plain		60

(All instruments illustrated are designated by a *.)

Eye Instruments.

SPECULA AND ENTROPIUM FORCEPS.



1716	Eye speculum, Lues's, latest pattern	.....	\$2 10
1717	" " Crichton's, over nose	.....	1 25
1718	" " Landolt's	.....	1 50
1719	" " Stevens', all metal	.....	85
1720	" " Knapp's, latest pattern, separable	.....	3 00
1721	" " Payne's	.....	2 25
1724	Entropium Forceps, Desmarres's	.....	1 75
1725	" " Knapp's, right and left	each	2 25
1726	" " Siedler's	.....	2 25
1727	" " cross-bar	.....	2 00
1728	" " Lawrence's, right and left	each	2 25
1729	" " Frost's, reversible	.....	2 25
1731	Trichiasis Forceps, Katti's	.....	2 00
1732	Traction Forceps, Fox's	.....	2 25

All instruments illustrated are designated by a *.

Eye Instruments.

IRIS, STRABISMUS AND FIXATION FORCEPS.

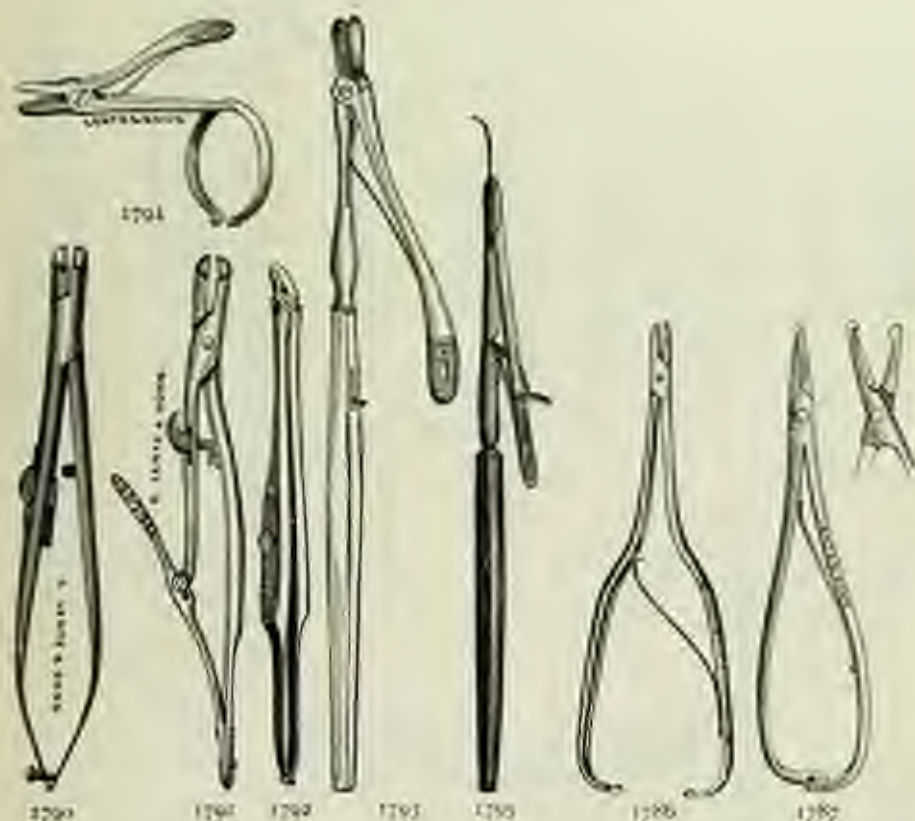


1749	Dressing Forceps, straight, slender points, serrated.	\$0.75
1741.*	Iris Forceps, straight	1.50
1742.	" " half curved	1.25
1743.*	" " full curved	1.25
1744.*	" " angular	1.25
1745.*	" " Fisher's, short, serrated	1.25
1746.*	" " Fournier's, with back tooth	1.50
1747.	" " Liebreich's latest improved pattern	1.25
1748.	Tendon Forceps, Stevens', straight or curved	1.25
1749.	Iris Retractor, Volk's	2.00
1750.	Strabismus Forceps, straight	1.00
1751.*	" " curved	1.00
1752.*	Fixation " straight, Box's	1.25
1753.*	" " Graefe's	1.00
1754.*	" " Graefe's, with spring catch	1.25
1755.*	" " Stevens', with catch	1.25
1756.*	" " Pyle's, slide catch	2.00
1757.	" " and Ligature Forceps, Box's	1.75
1758.*		
1759.*		

All instruments illustrated are designated by a *.

Eye Instruments

NEEDLE HOLDERS AND SUTURE NEEDLES.

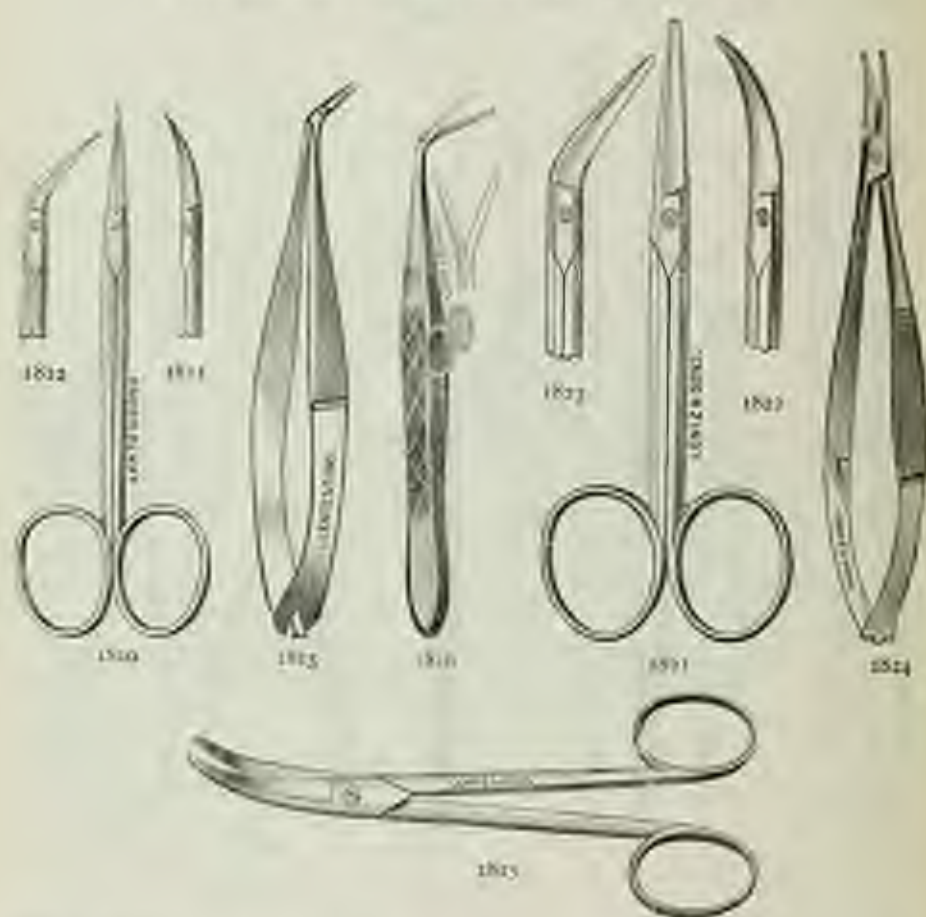


1790.*	Needle Holder, Pratt's	\$2.25
1791.*	" " Sand's	3.00
1792.*	" " Lewis'	3.00
1793.*	" " Knapp's improved, adaptable	3.50
1794.*	" " Gulezowsky's	1.50
1795.*	" " Steensen's, aluminum handle	3.50
1796.*	" " Bowman's	3.00
1797.*	" " Richter's	3.50
1798.	" " Steensen's	3.00
1799.	" for Advancement and Canthoplasty, Prince's	1.50
1800.	Suture Needle, Hensley's, aluminum handle	1.50
	" " with slide action, Reverdin's	4.50
	" Needles, regular, curved and half curved	per dozen 60
	" Silk, white or iron dyed	per reel 50

All instruments illustrated are designated by a *.

Eye Instruments.

IRIS, STRABISMUS AND ENUCLEATION SCISSORS.

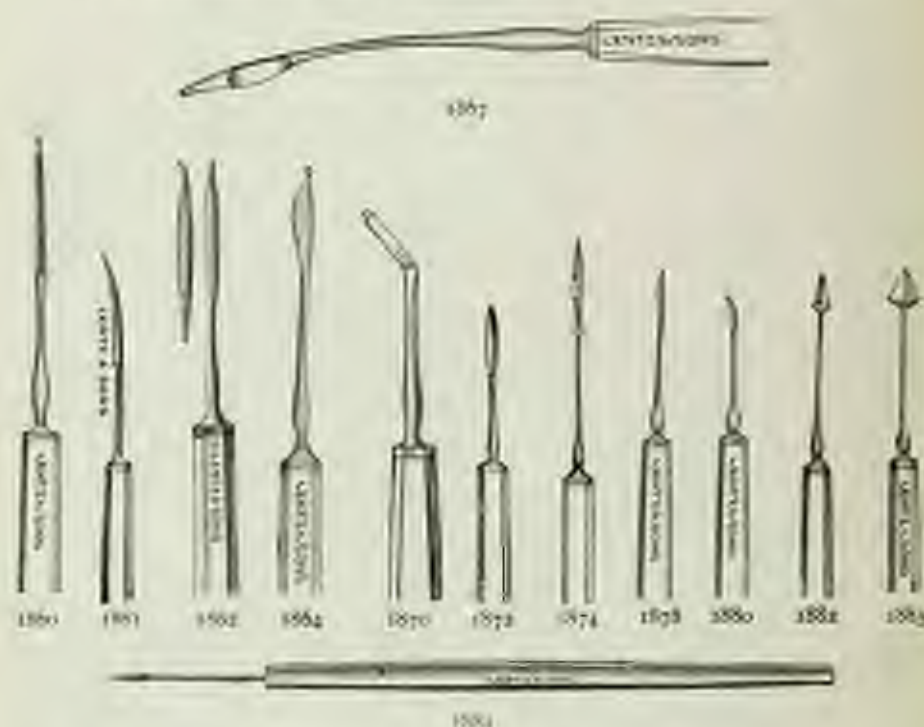


1812.*	Iris Scissors, straight		\$1.00
1813.*	"	curved to flat	1.50
1814.*	"	angular	1.50
1815.	"	Stevens' Tenotomy	1.50
1816.	"	Noyes', with metal handle	4.50
1817.*	"	McClellan's	3.00
1818.*	"	Wheeler's	3.50
1819.	Lachrymal Scissors, Ait's		1.50
1820.	Pterygium	Chadwick's, right and left	each 2.00
1821.	Strabismus	" straight	1.50
1822.*	"	" curved	1.50
1823.*	"	" angular	1.50
1824.*	"	Jackson's	2.50
1825.*	Enucleation	" curved	1.50
1826.	"	" " Norris', stout	1.50
1827.	"	Watson's, overlaid with hemostatic clamp	6.50
1828.	"	Spoon, Wheeler's	1.50
1829.	"	Wells'	1.50

All instruments illustrated are designated by a *.

Eye Instruments.

CANALICULUS KNIVES, PARACENTESIS AND KNIFE NEEDLES.



1860.*	Canaliculus Knife, Weller's, probe point, straight or curved	.....	\$1.50
1861.*	" " " " curved, sharp or probe point	.....	2.00
1862.*	" " " " Bowman's, probe point straight or curved	.....	2.00
1863.*	" " " " Agnew's, with long, pliable shank	.....	1.00
1864.*	" " " " Neves'	.....	2.00
1865.*	" " " " Noyes'-Selling's	.....	1.00
1866.*	" " " " Selling's	.....	2.00
1867.*	" " " " Thomas'	.....	2.00
1868.*	Secondary Knife, Demaree's, concave or convex	.....	each 2.00
1869.*	" " " " angular, right or left	.....	2.00
1870.*	" " " " straight	.....	2.25
1871.*	Iris Knife, single edge	.....	2.25
1872.*	" " " " double	.....	2.25
1873.*	" " " " with step	.....	2.25
1874.*	" " " " sickle shape	.....	2.25
1875.*	" " " " Adams'	.....	1.50
1876.*	Knife Needle, Hayes'	.....	1.50
1877.*	" " " " Knapp's	.....	1.50
1878.*	" " " " curved	.....	1.50
1879.*	" " " " Bailey's	.....	1.50
1880.*	Paracentesis Needle, Demaree's, narrow	.....	1.50
1881.*	" " " " broad	.....	1.50

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

Eye Instruments.

CYSTOTOMES, NEEDLES, HOOKS, SPUDS, ETC.



1892.	Parsentis Needle, broad	\$1.25
1894.	" " extra broad	1.25
1897.	Cataract Needle, Ross's, straight	1.25
1898.	" " " curved	1.25
1899.	" " Bowman's, with stop, straight or curved	each 1.25
1900.	" " " narrow, straight or curved	" 1.25
1901.	Cystotome, Graefe's	1.25
1902.	" Knapp's	1.25
1903.	" Koyser's, hoe shape	1.25
1904.	Hooked Needle, Lazzari's	1.25
1906.	Hooked Needle, Lazzari's	1.25
1907.	Hooked Needle, Noyes's	1.25
1908.	Sharp " Tynell's	1.25
1909.	Blunt " " "	1.25
1910.	Position " double	1.25
1911.	Ophthalmostate, three points	1.25
1912.	Less Tractor, Graefe's	1.25
1913.	Spud, Dux's, for removing foreign bodies	1.25
1914.	" Schell's	1.25
1915.	Hook, Knapp's	1.25
1916.	Gauge, small	1.25
1917.	Tattooing Needle, Bader's	1.25
1918.	" " with silver spatula	2.50
1919.	Cautery Probe, of platinum, Graessing's, for corneal ulcers	2.50

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

Eye Instruments.

STRABISMUS HOOKS, SCOOPS, ETC.

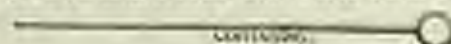


1931. ^a	Strabismus Hook, small		\$1.00
1932. ^a	" " large		1.00
1933. ^a	" " bistoury		1.00
1934. ^a	" " Wecker's double, for advancing the muscle		4.00
1935.	Tractotomy " Stevens'		1.00
1936.	Traction "		1.00
1939. ^a	Lane Scoop, Doyal's, German silver		1.00
1940. ^a	" " Critchett's, " serrated		1.00
1941. ^a	" " " " concave		1.00
1942.	" " Noyes', " "		1.00
1943.	" " " " toothed, steel		1.25
1944. ^a	" " Levin's, pliable, steel loop		1.00
1945. ^a	" " Graefe's, fenestrated		1.25
1947. ^a	Chalcidian Scoop, Schell's	hard folder, \$1.00, tortoise shell	1.25
1948. ^a	" " Steel's, with serrated edge		1.25
1949.	Scoop, Wecker's, with sharp edge		1.25
1950. ^a	" " Mayhoffer's round, with sharp edge, 4 sizes	each	1.25
1951. ^a	Spatula, tortoise shell, for repositioning the iris		1.25
1952.	" German silver		1.00
1953. ^a	Lid Scarcifying Knife		1.25

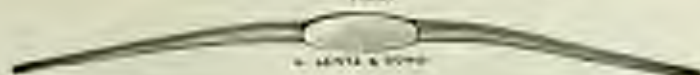
All our eye instruments are furnished with aluminium handles, unless otherwise specified.

Eye Instruments.

LACHRYMAL DILATORS, CANULAE AND STYLES.



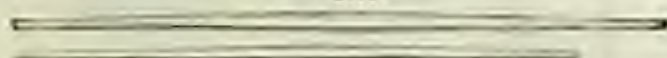
2006



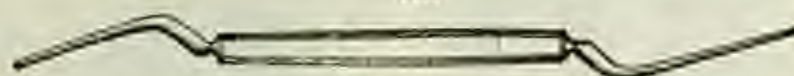
2008



2009



2010



2011



2012



2013



Fig.	Description	Material	Price
2006.	Lachrymal Probe, And's	silver	50 25
2008.	" Dilator, Weber's, plain	plated, 50c.	1 10
2010.	" " graduated	50c.	1 35
2011.	" " Peck's, central, two sizes	silver, each	50
2012.	" " Lewis'	aluminum, \$1 25	silver 1 25
2013.	" " Williams', edge pointed	silver	1 00
2015.	" " Galezowsky's		2 00
2017.	" " Ellis's, ring handle		2 75
2019.	" Director, Bowman's	silver	55
2021.	Medicinal Scoop, Fox's		50
2022.	Lachrymal Style, Bowman's		25
2023.	" " " "		25
2024.	" " " with disc		35
2025.	" " Canale,		40
2026.	" " " "		40
2027.	" " " "		40
2028.	" " Fox's, plain, 1 inch and 1 1/4 inch	silver, each	40
2029.	" " " "	" "	50
2030.	" " " "	" "	50
2032.	Lead Wire for Styles	per foot, 15c. and	20

When ordering Lachrymal Styles and Canulae, state sizes desired corresponding with Lachrymal Probes figs. 1990-1994.

Eye Instruments.

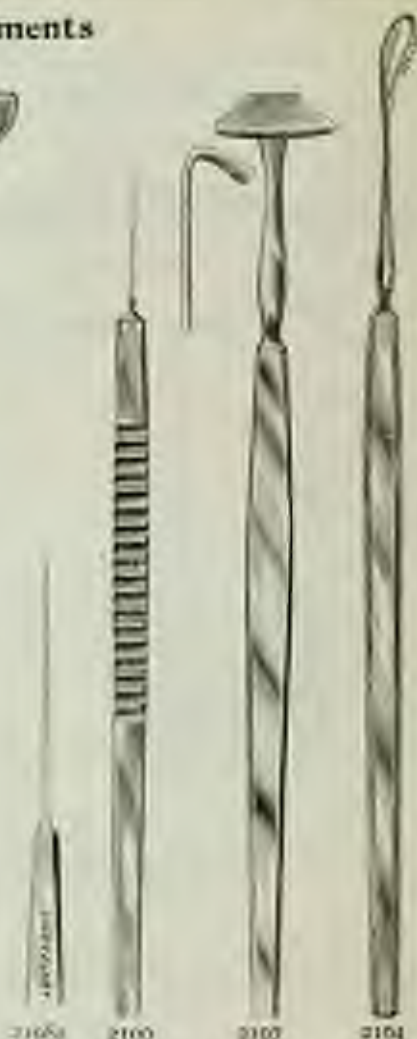
LACHRYMAL DILATORS, CANULAE, ETC.



2000.*	Tattooing Needle and Spatula, Wamley's	.....	\$2 75
2002.*	Lachrymal Dilator, Wamley's, for femoral dilatation	each	90
		set of six sizes	2 25
2003.*	Styles, Wamley's, aluminum, ten sizes, from No. 2 to No. 15 French scale	each, 25c; per doz.	2 25
2004.*	Canula, Wamley's, telescopic, silver, medium and large	each	1 80
2005.*	Dilator, Wamley's, long tube	.....	90
2006.*	Introducer, Wamley's	.....	1 00
2007.*	Syringe, Wamley's, consisting of a middle ear canula and a silver probe	.....	3 50
2014.*	Glass Spheres, for dilatation, for salivary, seven sizes, from 15 mm. to 25 mm.	per set	1 75
2015.*	Forceps, Fox's, for introducing glass spheres	.....	2 75
2016.*	Puncta Clamp, Fox's modified Lachryal's	.....	50

*All instruments illustrated are designated by a **

Eye Instruments

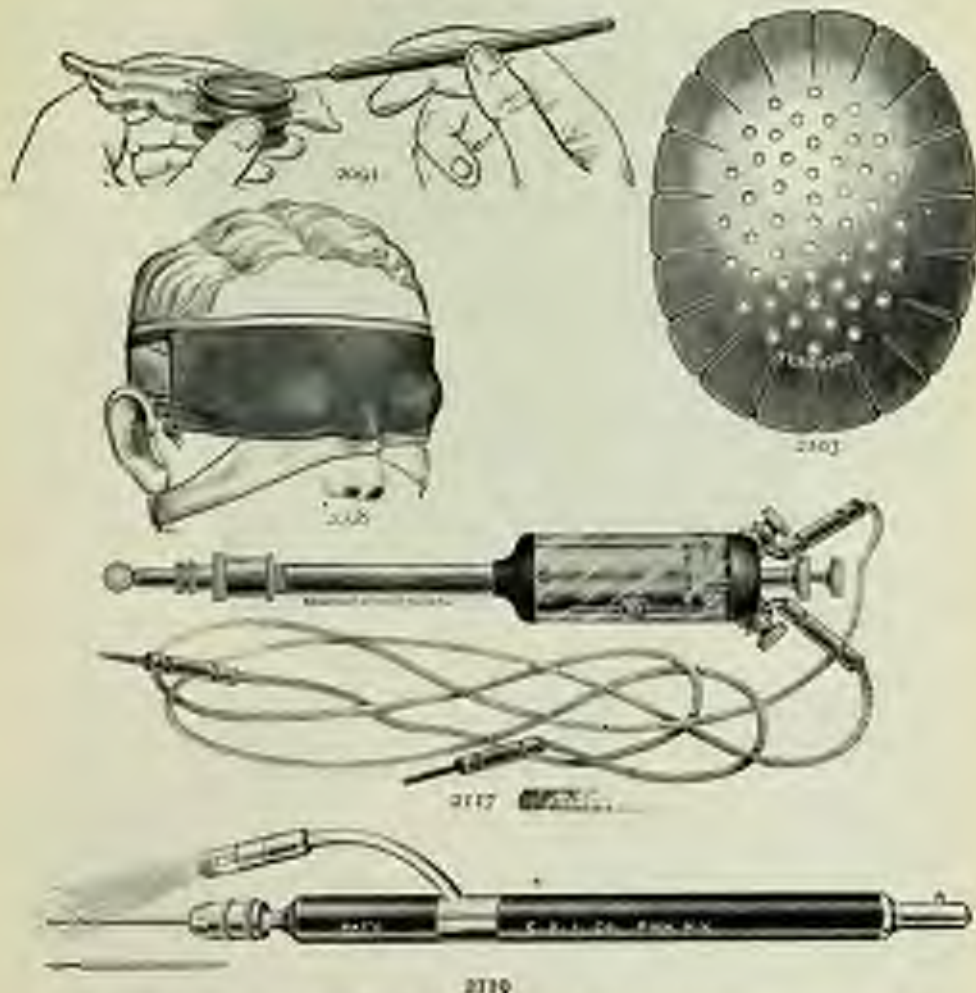


		2108	2100	2107	2104
2081.*	Eye Speculum, Ziegler's				\$4.00
2082.	Shoemaker's, with parallel blades, open or closed . .				2.00
2085.	Ciliary Clamp, Ziegler's				3.50
2087.*	Cautery				used in galvanic-cautery procedure of the eyelids for ectropion and entropion . . . 3.50
2088.*	Knives,				for ectropion and entropion; complete set of knives and handle in case . . . 15.00
2096.	" " " "				only each 1.25
2097.	" " " "				each 6.00
2100.*	Knife, Needle,				made in three lengths, 5, 6, and 7 mm, each 1.50
2104.*	Lens Loop,				with very fine teeth 1.75
2107.*	Lid Elevator,				1.25
2108.	Punctum Dilator,				double ended, similar to No. 2092, page 165 1.25
2108.*	Bisley's, gold tip				1.00
2109.	Eye Dacry, Fox's improved . . . . .				.75
2110.	Retractor, Müller's, for extirpation of the lachrymal sac . .				3.00
2110.	Chisel, Fox's, for extirpation of the lachrymal sac . . .				1.50
2111.	Photophor Electric Lamp, Ziegler's, for operative work . .				20.00
2112.	Gill's Forceps, Ziegler's . . . . .				.75
2113.	Forceps for introducing lead styles, Ziegler's				2.50

All our eye instruments are furnished with aluminum handles, unless otherwise specified.

All instruments illustrated are designated by a *

Eye Instruments.



2091.*	Test Drum, hard rubber, with a piece of fine kid skin	\$0 75
2092.	Kid Skin, for testing points of instruments	50
2093.	Pencil, with Alum Conc in wooden handle with cap	25
2094.	" " Sulphate of Copper Conc in wooden handle with cap	25
2098.*	Ocular Mask, Ring's per dozen, \$5 30; each	35
2101.	Eye Shield, Andrews', aluminum	65
2103.*	" " Fox's, aluminum	75
2105.	" " Pads, " absorbent, single per doz.	20
2106.	" " " " double	30
2117.*	Eye Massage Vibrator, Fieshergen's, for massaging the eye ball, as used by Prof. L. Webster Fox and Dr. A. E. Prince; without battery	16 00
2118.	Battery for operating Fig. 2117 Eye Massager; has a standard type dry cells and rheostat	5 00
2119.*	Eye Spad Holder, with electric light attached; including two eye spads	5 00

*All instruments illustrated are designated by a *.*

Eye Instruments in Cases.



2117

2112. Eye Case, No. 1.

Contains one pair Strabismus Scissors; one Strabismus Hook; one pair Fixation Forceps; one Cataract Knife; one Wire Socklet, plain.
In leather covered case \$6 30

2113. Eye Case, No. 2. Veasey's Cataract Set.

Contains one Swenden's Speculum; one Graefe's Knife; one Fixation Forceps; one Iris Forceps; one Iris Scissors; one Cystotome and Scoop combined; one Spatula.
In leather covered case \$11 00

2114. Eye Case, No. 3. L. Webster Fox's.

Contains one Graefe's Cataract Knife; one Beer's Cataract Knife; one Weber's Canaliculus Knife; one Angular Keratome; one Bowman's Straight Stop-Needle; one Broad Needle; one Strabismus Hook; one Tyrrell's Sharp Hook; one Crichton's Serrated and Concave Scoop; one Daviel's Scoop and Cystotome; two Lid Retractors; one Jaeger's Lid Spatula; one pair Irrectory Forceps, curved; one pair Fixation Forceps; one pair Ligature Forceps; one Corneal Lachrymal Dilator, silver; two Lachrymal Probes, silver, four sizes; one Irrectory Scissors, angular; one Strabismus Scissors, straight; one Enucleation Scissors, curved as flat; one Fox's Set Screw Socklet; Needles and Silk.
In leather covered case \$30 00

2117.* Eye Case, No. 5. Lentz's.

Contains one Beer's Cataract Knife; two Graefe's Cataract Knives; one Canaliculus Knife; one Scarificator; one Knife-Needle; one Bowman's Stop-Needle, curved; one Corneal Spec; one Strabismus Hook; one Tortoise Shell Lens Scoop; one Laval's Wire Scoop; one Desmarres's Lid Retractor; one Scalpel; one Iris Knife, single edge; one Beer's Cataract Needle, straight; one Angular Keratome; one Graefe's Cystotome; one Daviel's Scoop; four Bowman's Double Probes; one Enucleation Scissors; one Iris Scissors, curved; one Fixation Forceps; one Strabismus Forceps, straight; one Iris Forceps; one Iris Forceps, curved; one Desmarres's Entropion Forceps; one Swenden's Stop Speculum; one Steven's Needle Holder; one Luer's Modified Knapp's Trachoma Forceps; one Jaeger's Lid Holder; one Test Drum with fine kid skin; Lead Wire for Styles; Needles and Silk.

In wood case lined with leather and the outside is substantially covered with morocco leather \$45 00
Cases for Eye Instruments, various sizes \$3 00 to \$10 00

Eye Instruments.

TREATMENT CASES.

BOTTLES.



2152



2153



2154



2157



2158-2159

- 2152.* Oculist's Treatment Case; quartered oak or mahogany . . . \$16 00
 Contains six 2 oz. Tincture Bottles, six 1 oz. Tincture Bottles, four 1/2 oz. Tincture Bottles, four 1 oz. Salts, four 2 oz. Ointment Jars, three Gold Plated Applicators, set of Labels. The bottles have absolutely airtight ground glass stoppers and droppers. The unit is quite compact and very neat. Compartments are provided for applicators, cotton, etc., also a drawer for various instruments.
- 2153.* Oculist's Roll Top Treatment Case; quartered oak, hand polished . . . 18 00
 Contains six 2 oz. Dropper Bottles, six 2 oz. Dropper Bottles, four 1/2 oz. Dropper Bottles, two 2 oz. Tincture Bottles, one Ziegler's Bottle, five 1 oz. Salts, five 2 oz. Ointment Jars, bottle of Labels.
- 2154.* Oculist's Acceptable Treatment Stand, complete with bottles . . . 3 50
 2155. " " " " without bottles . . . 1 25
 2156. " " " " with three rows of 5 each salt mouth bottles and 4 empty spaces to hold atomizers . . . 5 00
- 2157.* Eye Dropper Bottle, round form, 1 oz.; amber, base of crystal . . . each 25
 2158.* Eye Wash Bottle, Ziegler's, with ground lid, plain . . . 1 25
 2159.* " " " " boric acid label . . . 1 50

Eye Instruments.

OCULISTS' BAGS.



2163



2164

- 2163* Oculist's Bag, extra wide, will accommodate an eye instrument case and leaving sufficient space for dressings, etc. The bag measures 12 in. long, 7 in. wide, 6 in. high, is made of best quality heavy black grain leather, leather lined and hand stitched to a light weight English steel frame, with nickel-plated lock and end catches.

\$8 31

For other styles of small bags, see "Ophthalmological Section."

- 2164* Oculist's Bag, arranged to carry a complete equipment. It is partitioned off and includes an empty Ziegler's eye instrument case with metal racks, a Ziegler's 3 oz. boric acid bottle, a treatment case, and six 1/4 oz. metal capped glass stoppered bottles. The bag is 16 in. long, 9 in. high, 7 in. wide, made of heavy black grain leather of best quality, leather lined, and hand stitched to an English steel frame, with nickel-plated lock and end catches.

30 00

- 2165 Oculist's Bag, same as No. 2164, but without its contents.

10 00

All articles illustrated are designated by a *

Eye Instruments.

RETINOSCOPES, ETC.



2168*	Retinoscope	Thorington's	.....	\$1 00
2169	"	plain, with fixed handle	.....	1 00
2170	"	with folding handle	.....	75
2171*	Asbestos Chimney	Thorington's, with iris diaphragm	.....	2 50
2172	"	with opening of 10, 20 or 30 mm	each	1 00
2173	"	with condensing lens	.....	1 25
2174*	Condensing Lens	34-convex	.....	1 00
2175*	"	with metal frame and handle	.....	1 25
2176*	"	Powell's, with band to fit over third finger, double jointed arm	.....	2 50
2177*	Ocular Transilluminator	Wiedemann's	.....	10 00
		Useful in the diagnosis of intraocular tumor, detached retina, and in locating foreign bodies in the anterior chamber.		
2178	Pocket Battery	of 6 dry cells, in leather case, for operating same	.....	5 00

All instruments illustrated are designated by a *.

Eye Instruments.

OPHTHALMOSCOPES.



2180



2181



2182



2184

2180* Ophthalmoscope, Loring's latest improved, tilting mirror, complete with condensing lens, in case . . . \$5.00

This new model of the Loring differs from the 2181 style instrument in that only those number's representing the sum total of the lens power obtained at the sight opening can appear in any position of the disc. This improvement is obtained in the novel construction of the upper disc containing the auxiliary lenses (+ and - 30 and + and - 16 D.), and also in the outer covering or shield having the U-shaped opening.

2181. Ophthalmoscope, Merton's improved, with color test in end of handle, complete \$22.50

2182. " " " without color test . . . 21.00

2183* " " De Zeng's luminous, latest Loring model, in case . . . 15.00

2184* Retinoscope, De Zeng's luminous, complete, in case . . . 12.50

2185. Pocket Battery of 6 dry cells, with quill rheostat, in leather case . . . 5.00

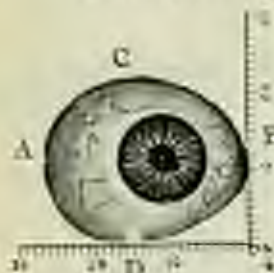
2186* Photo-Ophthalmometer, improved, with amber wall bracket or floor stand . . . 30.00

Very compact, accurate and light. Regularly made for the reception of 1 1/2 inch trial lenses, but can be adapted to hold 1 1/4 inch lenses. Test cards and printed instructions accompany each instrument.

2187. Perimeter, "Standard," with 2 sliding object carriers, color discs, etc. \$18.00

All instruments illustrated are designated by a *.

Artificial Eyes. Anatomical Models of the Eye.



2135



2136

- 2135* Artificial Eyes, regular shell, finest quality, all sizes and colors, price to patient, \$5 00; to physician, each \$3 00
- 2136* " " "Reform," closed hollow shell; particularly desirable where the socket is roomy or the stump of the inside small, as it fills the space more prominently and thereby gives a more lifelike appearance; its well-rounded edges prevent irritation and lessen the annoyance of an excessive flow of secretion. price to patient, \$8 00; to physician, each \$ 5 00

Assessments sent for selection. All transportation charges to and from Philadelphia must be paid by the purchaser.

The above scale is in millimeters and may be employed in giving measurements.

In ordering artificial eyes the following questions should be answered:

- | | |
|--|---|
| Right or left eye? | Color of iris? |
| Is eyeball shrunken or removed? | Diameter of iris? |
| Has an artificial eye been worn? | Diameter of pupil? |
| Is the sound eye prominent, very full or sunken? | Distance from inner to outer canthus, A to B? |
| Is the white of the eye clear or of dark or yellowish tinge? | Width of eye, C to D? |
| | Height of eye, E to F? |

In cases where an eye has been worn, it is desirable in ordering a new eye to send the old one, whether broken or intact, as a sample, with answers to the following questions:

- | | |
|---|---|
| Mention whether the color or diameter of the iris or pupil is correct or otherwise? | If the eye occasions uneasiness, where is the pain felt? |
| Is the eye a perfect and comfortable fit? | Can this uneasiness be compared to a pressure or to the contact of some irritating substance? |
| When the eyelids are closed, do they cover it completely? | |



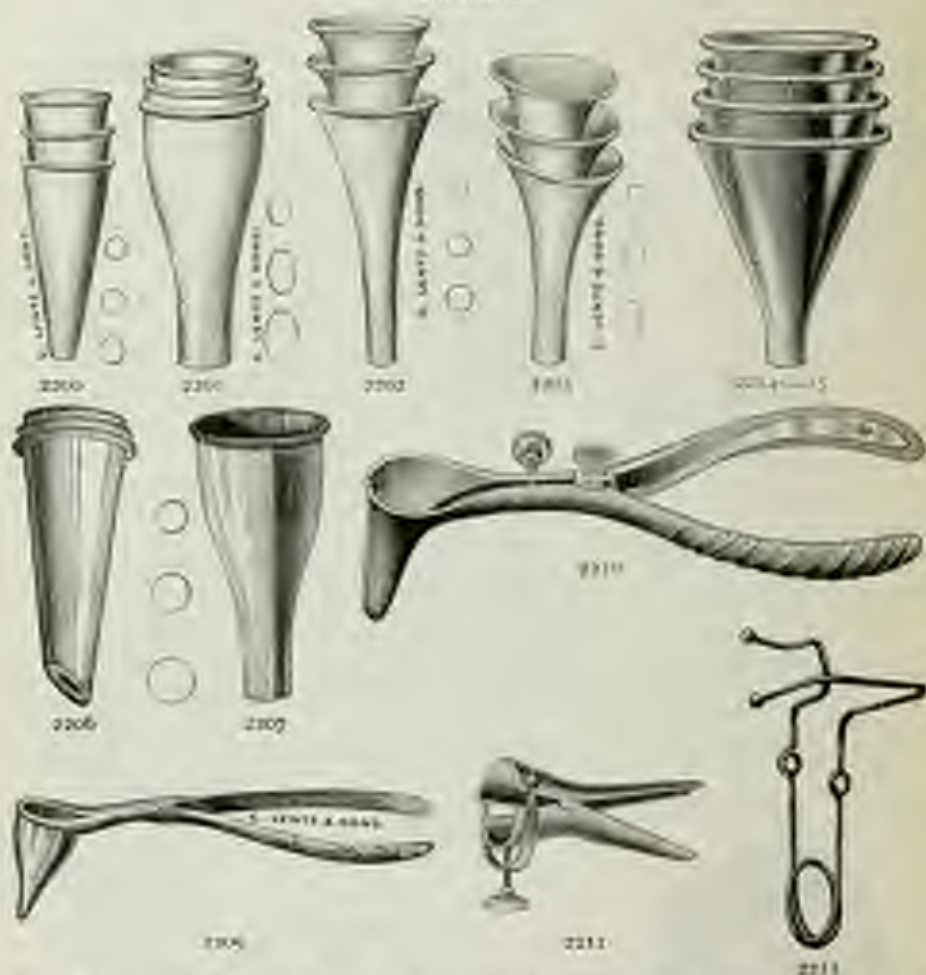
2140

- 2140 Model of Human Eyeball, Bock-Stern's, made of plaster of paris, 5 1/2 inches diameter. Can be taken apart, and then shows the cornea, iris, crystalline lens, vitreous humor, and the coating, including the results of microscopic examination upon the retina. \$7 00
- 2140 Anson's Dissected Model of the Eye, the most perfect and accurate ever made. The material is Papier-Maché, and the whole is accurately dissected so as to be taken apart, showing successively the sclerotic and choroid coats, and cornea, retina, iris, pupil, crystalline lens, aqueous vitreous humors, also the muscles, nerves and blood vessels lying in the orbit around the eyeball; all parts having the natural colors; with full descriptive pamphlet. 30 00
- 2141 Same, of German manufacture. 25 00
- 2142 Phantom Face, Waldba's, for experimental operations, for one eye. 7 50
- 2143* Phantom Face, Waldba's, for experimental operations, for both eyes. to 00
- For other Models of the Eye, see Anatomical Models.

Section IV.

Ear Instruments.

SPECULA.



2200. ^a	Speculum, Wilde's, three in set	nickel plated, 75c.; 40c. silver plated \$1.00
2201. ^b	Grover's, " " "	85c. " " " 1.00
2202. ^c	Toyne's, " " "	85c. " " " 1.00
2203. ^d	Truesdell's, " " "	85c. " " " 1.00

The above sets are in best metal cases with screw top.

2204.	Turnbull's, one size	silver plated, \$0.50; silver 1.00
2205.	" " child's size	50c. " 1.00
2206. ^a	Leiser's, three in set	1.00; " 1.00
2207. ^b	Gesler's, four in set, hard rubber	.30
2208.	Toyne's, " " "	.30
2209. ^c	Kraus's, flexible	plain, 75c.; with set screw .85
2210. ^d	Kyle's, " improved	" " " 1.00
2211. ^e	Rossini's, " self-adjusting	" " " 1.25
2212.	Speer's, " " "	" " " 1.50
2213. ^a	" " wire	silver plated, 20c.; silver 1.00
2214. ^b	Bouchard's, four in set, nickel plated	" " " 1.00
2215. ^c	" " " " "	" " " 1.00

Ear Instruments.

MASSEURS.



- 2230.* Masseur, Delamarche's, best, in case \$3.50
 2231. " " with Siegle's hard rubber otoscope 5.50
 2232.* " Compressed Air Engine with a plain otoscope 7.00
 2233. " " with Siegle's otoscope, with 3 specula 9.00
 Can be operated by compressed air apparatus or by electric motor.
 2234.* Masseur, Water Motor, with a plain otoscope 8.00
 2235. " " with Siegle's otoscope, with 3 specula 10.00
 Can be connected to faucet for water pressure, or can be run by electric motor.
 2236.* Masseur, Electric, "Keystone," similar to fig. 2232, with motor and current controller, all fitted on a polished wood base; it is operated either by four dry cells or by attachment to any electric light socket 15.00

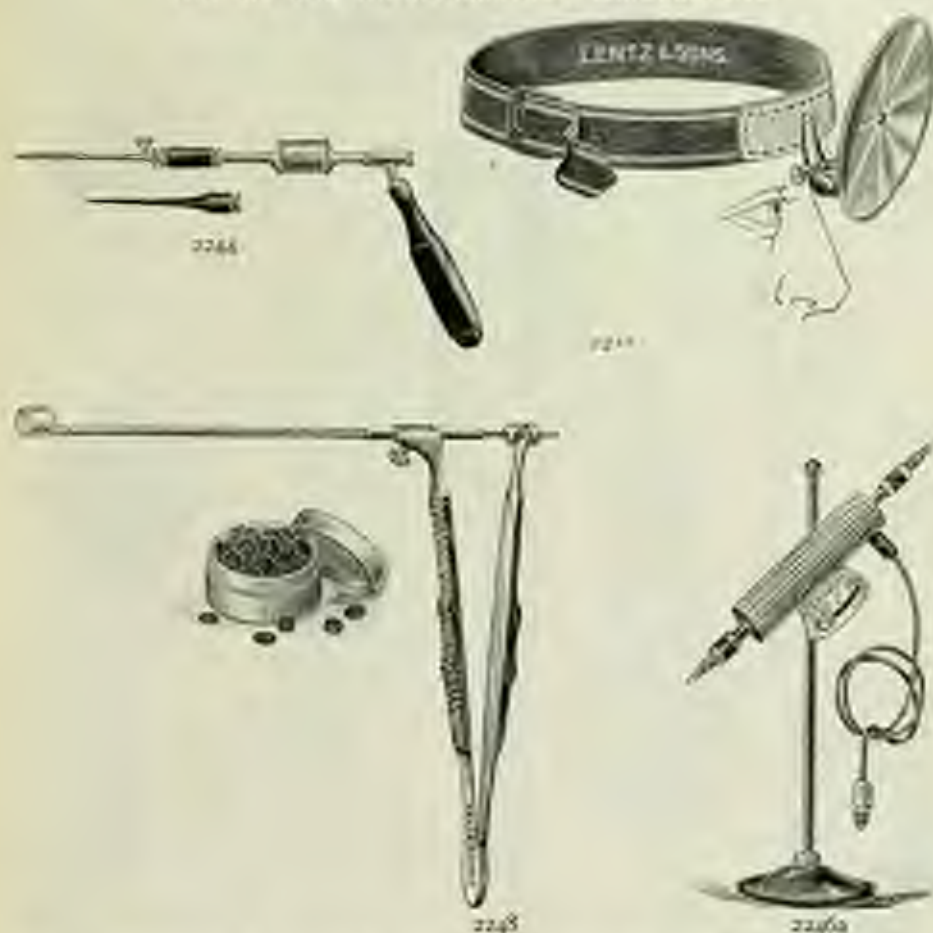
A thorough massage of the tympani can be produced with these engines; the length of the stroke is adjustable.

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Ear Instruments.

HOT-AIR AND OIL APPLICATORS, MIRRORS, ETC.



2240. Reflector, Delstanche's, with three tips and glass tube for artificial
 touch, in case \$27 50
2241. Reflecting Mirror, Trostsch's, with aluminum handle,
 3 inch, \$1 60; 3½ inch 1 75
- 2242.* Reflecting Mirror with Ivins' head band . . 3 inch, \$2 50; 3½ inch 2 75
- 2244.* Hot-Air Applicator, Vantani's, with two points: for the treatment
 of various forms of headache, tinnitus
 aurium, catarrh, etc. 4 50
- 2246.* " " Walters', for direct or alternating electric light
 current 12 00
- 2247.* " " " " for gas 10 00
2248. Oil Blower, Kyle's, with silver Eustachian catheter and bulb 3 75
2249. Cerebellum Hook, Inletto's, with aluminum handle 1 25
- 2250.* Tympanum Disc Porcupa, Wamsley's, steel, gold plated shaft, and
 box of plaster discs 7 50

This instrument is designed for the application of coast plaster discs over perforations of the ear drum, after disease of the middle ear cavity has ceased. The object of the disc is that it act as a skin-graft, causing gradual contraction of perforations and final closure.

All instruments illustrated are designated by a *.

Ear Instruments.

DIAGNOSTIC INSTRUMENTS.



2252



2255



2257



2258



2259



2260



2261



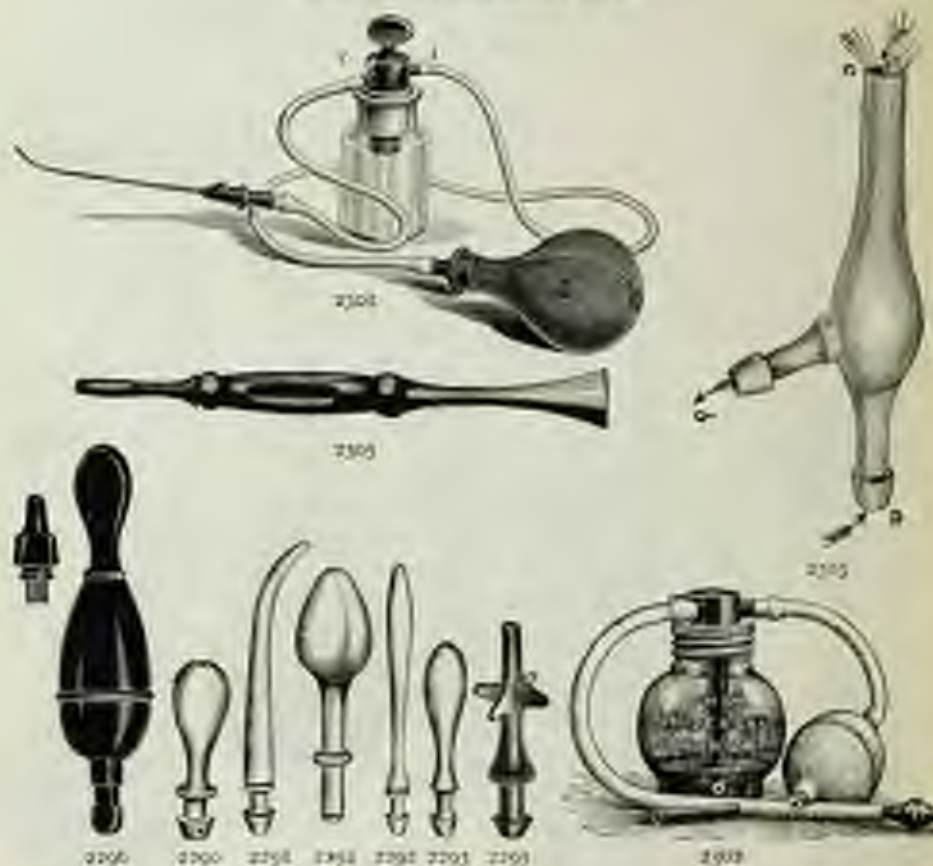
2262

2250	Testing Fork.	Hartmann's, C ₁	with clamp.	6 1/2 inch.	\$2.00
2251	"	"	C ₂	4 1/2 "	1.75
2252	"	"	C ₃ , without clamp.	6 "	1.75
2253	"	"	C ₄	5 1/4 "	2.00
2254	"	"	C ₅	5 1/4 "	2.00
2255	"	"	complete set of 5, in case		12.00
2256	"	"	plain, small, 4 1/2 inch		.50
2257	"	"	Standard	4 1/2 inch, \$1.00; 5 inch, \$1.50; 6 inch	2.00
2258	"	"	Blake's, 5 1/2 V. S.		1.00
2259	"	"	Loose's, with clamps, 9 1/2 inch		3.50
2260	"	"	Politzer's, with clamps and hammer		6.00
2261	"	"	Dench's,	14 inch, 26 to 64 V. S.	8.00
2262	Diagnostic Tube.	Toyne's			.50
2263	Whistle.	Gaston's			4.00
2264	"	Dench's, with leads and tubing			4.50
2265	Acoustometer.	Politzer's, for testing perception for loose conduction			2.50
2266	Manometer.				.50

All instruments illustrated are designated by a *.

Ear Instruments.

INHALERS, NOZZLES, ETC.



2302.*	Air Bag Nozzle, oral, hard rubber, two wires	each \$4.45
2303.*	" " Knapp's, hard rubber	75
2304.*	" " Enoch's " "	20
2305.*	" " Brand, " "	75
2306.*	" " Glass	20
2307.*	Ear Douche Nozzle, Back's, hard rubber	60
2308.*	Inhaler, Battle's	metal, \$1.50; hard rubber 85
2309.*	" Bishop's modification of Battle's	" " 1.00
2310.*	" Fomeroy's, glass	25
2311.*	Vaporizer, Douch's, with tubing and tips	2.00
2312.*	" " complete with catheter and air bag	4.00
2313.*	" " "The Universal" "	2.50
2314.*	Syphon Ear Douche, Lucase's	glass, 55c.; hard rubber 1.00
2315.*	Middle " Hewitt's	2.00
2316.*	Powder Blower, Knapp's, hard rubber	75c.; with bulb and tubing 1.50
2317.*	" " Soap, hard rubber, with bulb	85
2318.*	" " Grant's Eschschian Auto-Inflator	35

*All instruments illustrated are designated by a *.*

Ear Instruments.

SYRINGES.



2310-2312



2316-2317



2309



2302



2314-2315



2321



2318-2319



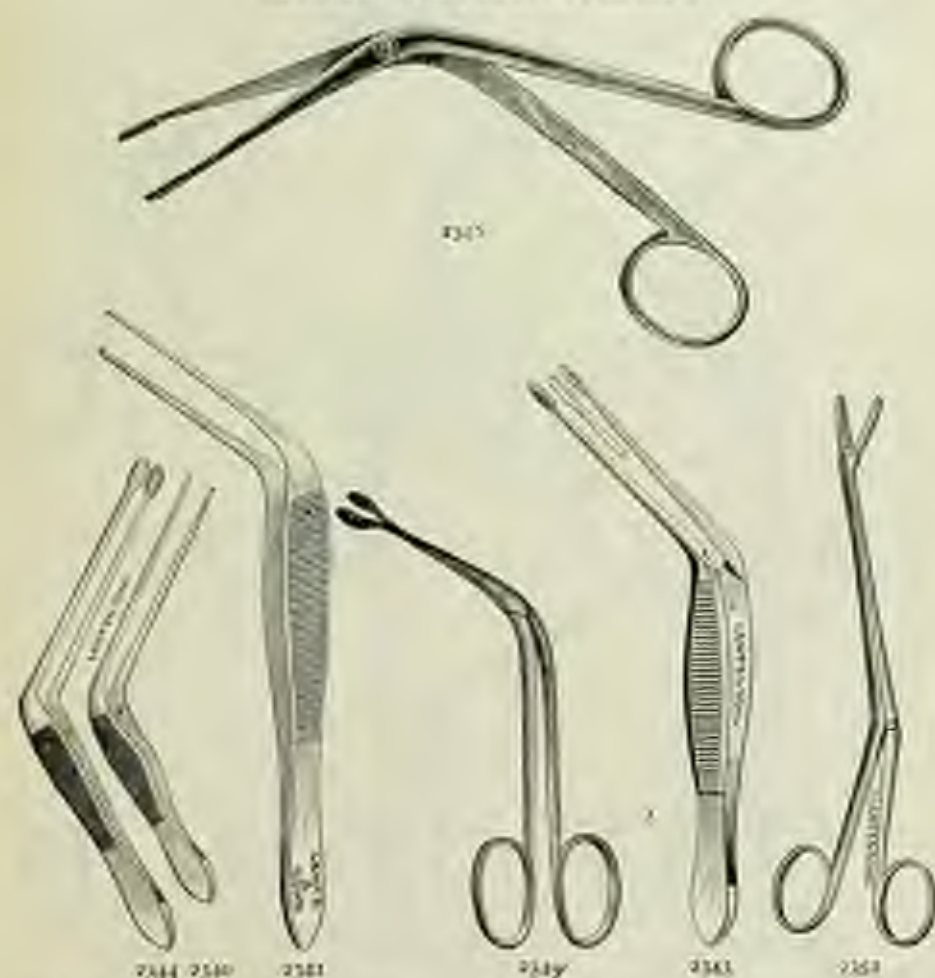
2320

2309.*	Ear Syringe, Freeman's, including hard rubber Eustachian catheter	\$1.50
2310.*	" " " " " " " " " " " "	.75
2311.*	" " " " " " " " " " " "	.00
2312.*	" " " " " " " " " " " "	1.25
2313.*	" " " " " " " " " " " "	2.25
2314.*	" " " " " " " " " " " "	1.50
2315.*	" " " " " " " " " " " "	1.75
2316.*	" " " " " " " " " " " "	1.50
2317.*	" " " " " " " " " " " "	1.75
2318.*	" " " " " " " " " " " "	3.00
2319.*	" " " " " " " " " " " "	4.00
2320.*	" " " " " " " " " " " "	1.50
2321.*	" " " " " " " " " " " "	.50
2322.*	" " " " " " " " " " " "	.65

All instruments illustrated are designated by a *.

Ear Instruments.

DRESSING AND POLYPUS FORCEPS.

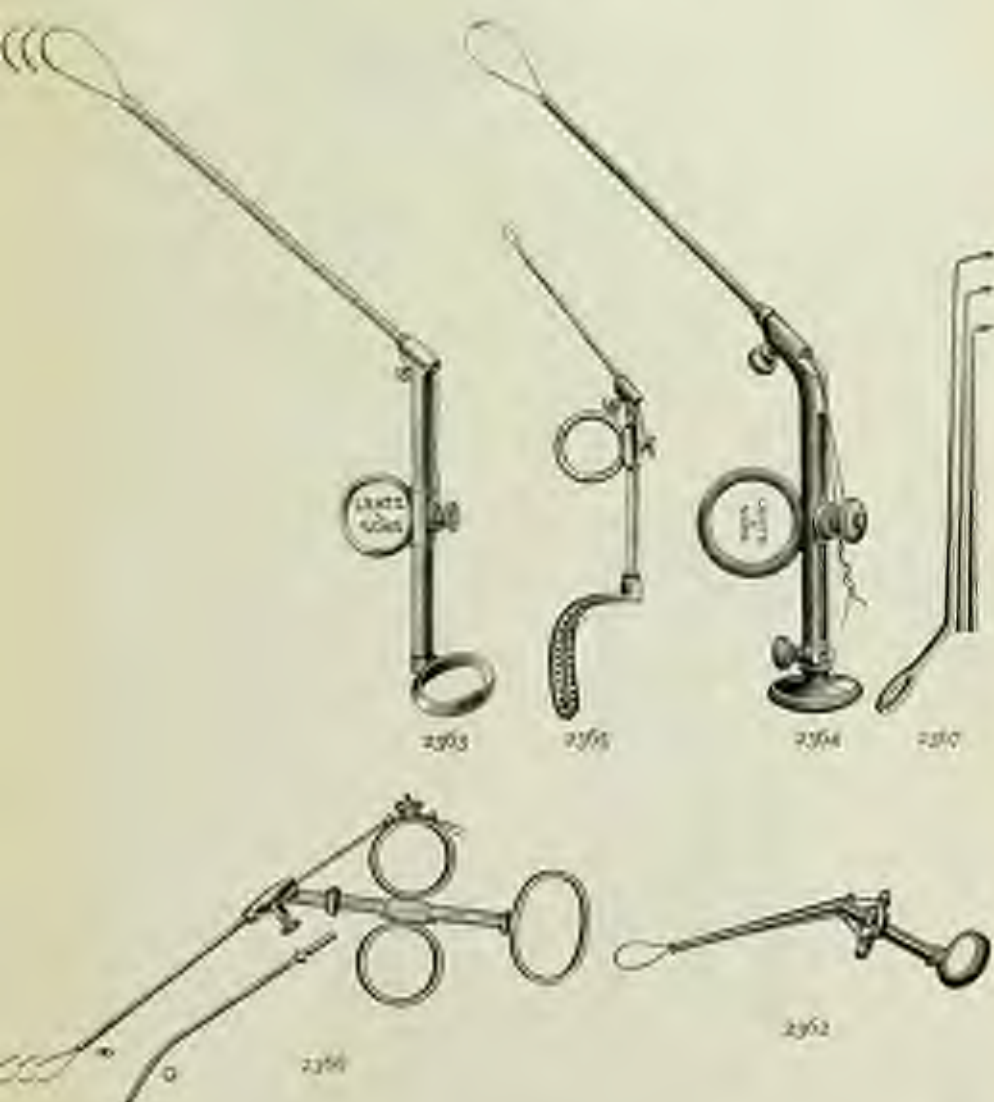


2340.*	Ear Forceps, Wilde's serrated,	\$0.75
2341.*	" " " mouse-toothed	.75
2342.	" " " cross action	1.00
2343.*	" " Politzer's, fine, straight or curved points	1.75
2344.*	" " " plain, " points	1.25
2345.*	" " McKay's, cross action, mouse-toothed	5.00
2346.	" " Pomeroy's, mouse-toothed, ring handle	1.75
2347.	" " Saxon's, " "	5.00
2348.*	Polypus Forceps, Halliwell's,	1.50
2349.*	" " " Politzer's	1.50
2350.	" " " Toybee's, ring handle	1.50
2351.*	" " " Noyes', alligator jaw, serrated	3.00
2352.	" " " " cutting edge	1.25
2353.	" " Bacon's, blunt curve, ring handles	2.25

All (without asterisk) illustrated are designated by a *.

Ear Instruments.

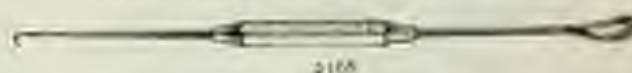
POLYPUS SNARES. CURETTES.



2352.*	Polypus Snare, Wilde's, plain	\$1.50
2353.*	" " Blake's, plain, \$2.00; fine, steel	3.00
2354.*	" " Radcliffe's, screw action, fine, steel	5.50
2355.*	" " Blake's, improved	2.00
2356.*	" " Pynchon's, with two coils	2.00
2357.*	Middle Ear Curette, Blake's, three sizes	each .50
2362.	Forceps for cutting and shaping wire for snares	1.00

*All instruments illustrated are designated by a **

Ear Instruments. **CURETTES AND FOREIGN BODY HOOKS.**



2368



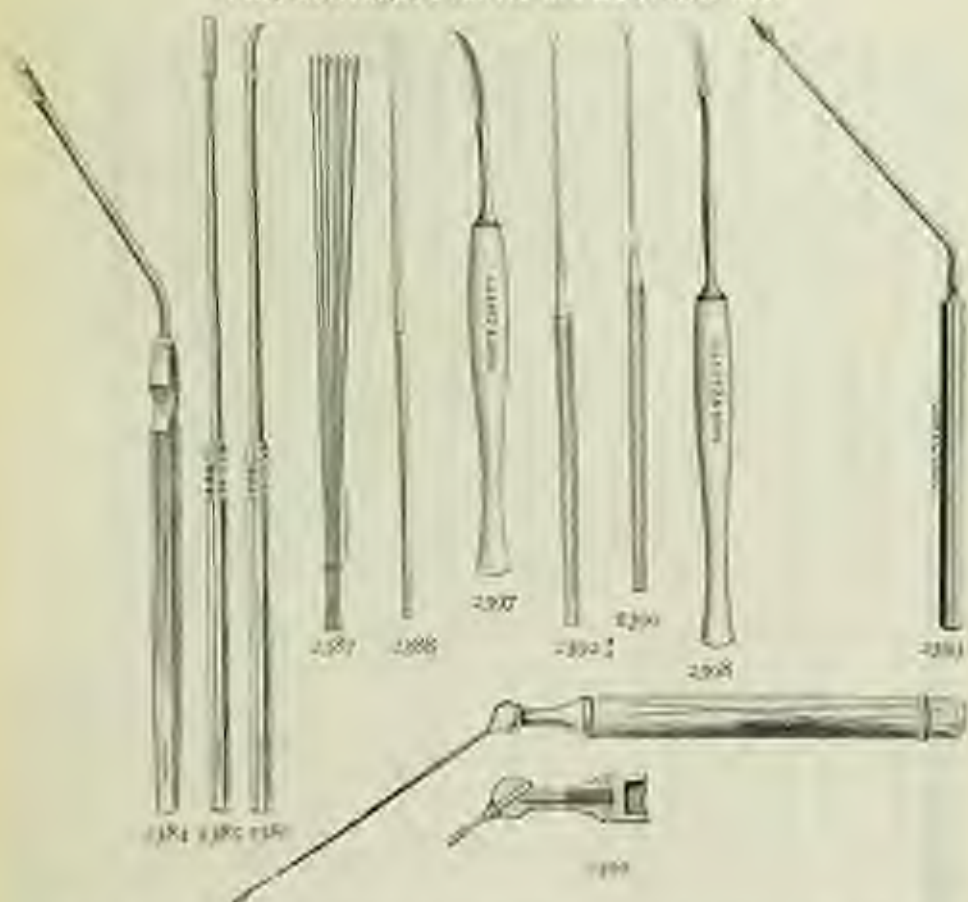
2369



2368.	Ear Spoon and Hook, Gross	Brass, H. Pat., Soc.; Ear, steel, a. pla.	50
2369.	" " " " " " " "	Passivated	55
2370.	" " " " " " " "	Saxton's double, fine, steel, nickel plated	85
2371.	" " " " " " " "	Curette, Spitz's spiral, three stages	each 40
2372.	" " " " " " " "	Back's Must. steel, three sizes	50
2373.	" " " " " " " "	sharp	75
2374.	" " " " " " " "	Wolf's adjustable, with set screw handle	2.50
2375.	" " " " " " " "	for cotton matter	1.50
2376.	Foreign Body Extractor, Quire's, automatic finger		1.50
2377.	" " " " " " " "	Lauterbach's	1.15
2378.	Cotton Applicator, Allen's, tapering, steel, fine	dozen, \$1.25; each	15
2379.	" " " " " " " "	fine, aluminum handle	20
2380.	" " " " " " " "	plain, steel	10
2381.	" " " " " " " "	ivory, steel	25
2382.	" " " " " " " "	Rosieroy, Phillips', improved (see Nasal Instruments)	1.50
2383.	Wash Box for cotton	" " " " " "	1.50

Ear Instruments.

PERFORATORS, CAUSTIC APPLICATORS, ETC.

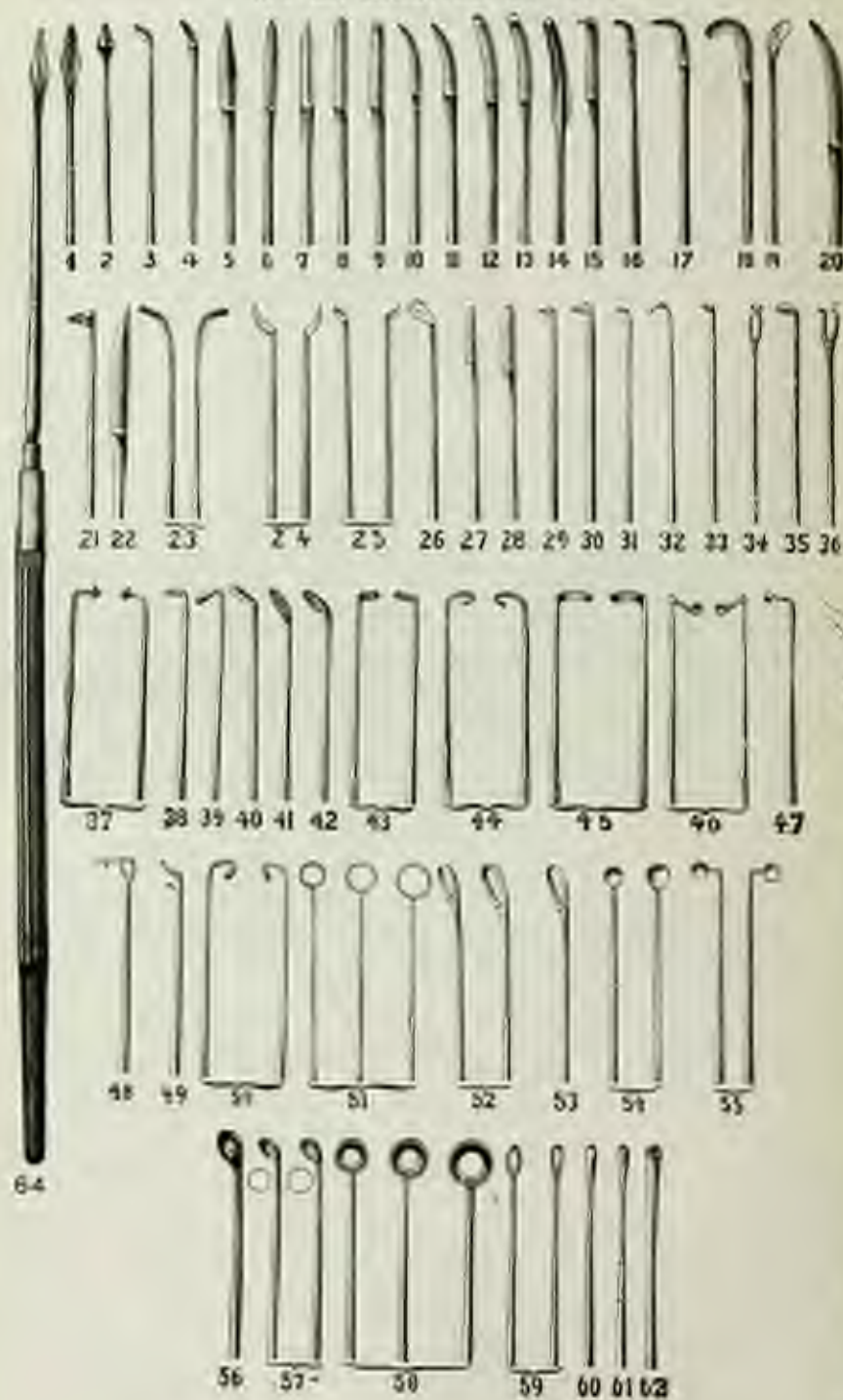


2381*	Ear Probe, Urbantschitsch's; celluloid handles; six sizes	per set	\$2 50
2382*	" " " " " " " " " "		1 50
2383*	Probe, Silver, Buck's	delicate, anc.; heavy	50
2384*	" " " " " " " " " "		40
2385*	Faucial Knife, Buck's		1 00
2386*	" " " " " " " " " "		1 50
2387*	Myringotomy, Buck's		75
2388*	Tympanum Perforator, Baer's, angular, double edge		1 50
2389*	" " " " " " " " " "		
2390*	" " " " " " " " " "		
2391*	" " " " " " " " " "		
2392*	" " " " " " " " " "		
2393*	" " " " " " " " " "		
2394*	" " " " " " " " " "		
2395*	" " " " " " " " " "		
2396*	" " " " " " " " " "		
2397*	" " " " " " " " " "		
2398*	" " " " " " " " " "		
2399*	" " " " " " " " " "		
2400*	" " " " " " " " " "		
2401*	" " " " " " " " " "		
2402*	" " " " " " " " " "		

All instruments illustrated are designed by a *.

Ear Instruments.

KNIVES, CURETTES, HOOKS, ETC.



Ear Instruments.

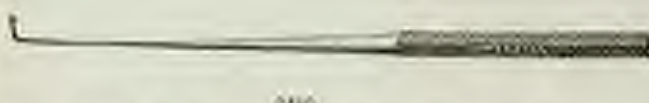
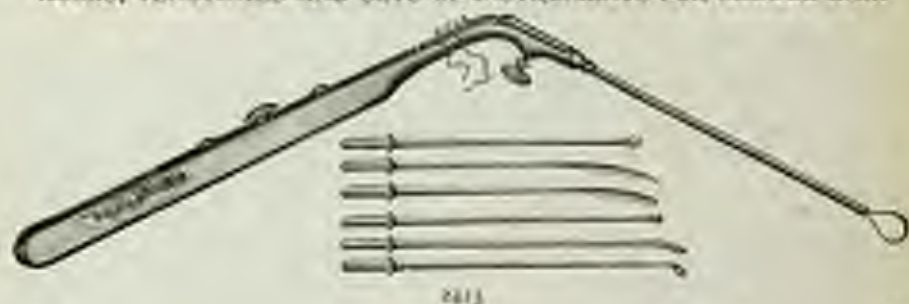
KNIVES, CURETTES, HOOKS, ETC.

1.	Pollitzer's Tympanum Perforator	\$o	65
2.	Trodtsch's		75
3.	Tympanum Perforator, angular blade		75
4.	Pierce's Tympanum Perforator		75
5.	Sexton's Sharp Knife		75
6.	Dench's Myringotomy, single edge		75
7.	" " " " double		75
8.	Holt's Straight Knife, blunt point		75
9.	Seaton's " " " " probe		75
10.	Pollitzer's Frenicle Knife		75
11.	Back's Curved Bistoury, sharp point		75
12.	Curved Bistoury, blunt point		75
13.	Back's Curved Bistoury, probe point		75
14.	Curved Bistoury, double edge, blunt point		75
15.	Full Curved Knife, sharp point, small		75
16.	" " " " sharp point, large		75
17.	Back's Lancet, curved, sharp		75
18.	" " " " Frenicle Knife		75
19.	Sexton's Knife, large		75
20.	Schwartz's Terebrom, right and left	each	75
21.	Hartmann's Knife		75
22.	Sexton's Ossicle Knife		75
23.	" " " " Trowel Shaped Perforator		75
24.	" " " " Straight Knife, blunt point, small		75
25.	" " " " " " " " large		75
26.	Jacobson's Frenicle Knife		65
27.	" " " " lateral head		65
28.	Hartmann's Sharp Hook, large		50
29.	" " " " small		50
30.	" " " " Double Hook		65
31.	Denville's		65
32.	Hartmann's Spatula		65
33.	Double Pronged Trepan, sharp		65
34.	Double Sharp Hook, right and left	each	65
35.	Blunt Hook, right angle		60
36.	" " " " acute		60
37.	Hartmann's Lever, obtuse angle		65
38.	Mollenhauer's Lever, serrated		65
39.	Hartmann's Grooved Lever		65
40.	Right Angle Blunt Hook, right and left	each	60
41.	Ferraz's Inces		60
42.	Ludwig's Lever, right and left		65
43.	Kretschmann's Inces Carotte, right and left		75
44.	Allport's Inces Hook		60
45.	Hewitt's Staples Hook		75
46.	Bishop's Ossicle Vibrator		65
47.	Inces Hook, probe point, right and left	each	60
48.	Back's Ear Curette, blunt, 3 sizes		65
49.	Sharp " " " " oval, 2		65
50.	Spoon Curette, round, sharp, 2 sizes		65
51.	Dench's Ear Curette, right and left	each	75
52.	Bishop's Middle Ear Curette, sharp		75
53.	Sharp Ear Curette, fenestrated, 2 sizes		75
54.	Pollitzer's Ear Curette, sharp, 3 sizes		75
55.	Hartmann's Serrated Ear Curette, 2 sizes		75
56.	Ear Probe, straight, plain		50
57.	" " " " graduated		60
58.	Tranström's Cotton Picker		60
59.	Universal Handle with Set Screw, for holding instrument in either straight or angular position	each	1 00
60.	Plain Handle with Slip Socket, to fit any of the above ear instruments	each	25

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Ear Instruments.

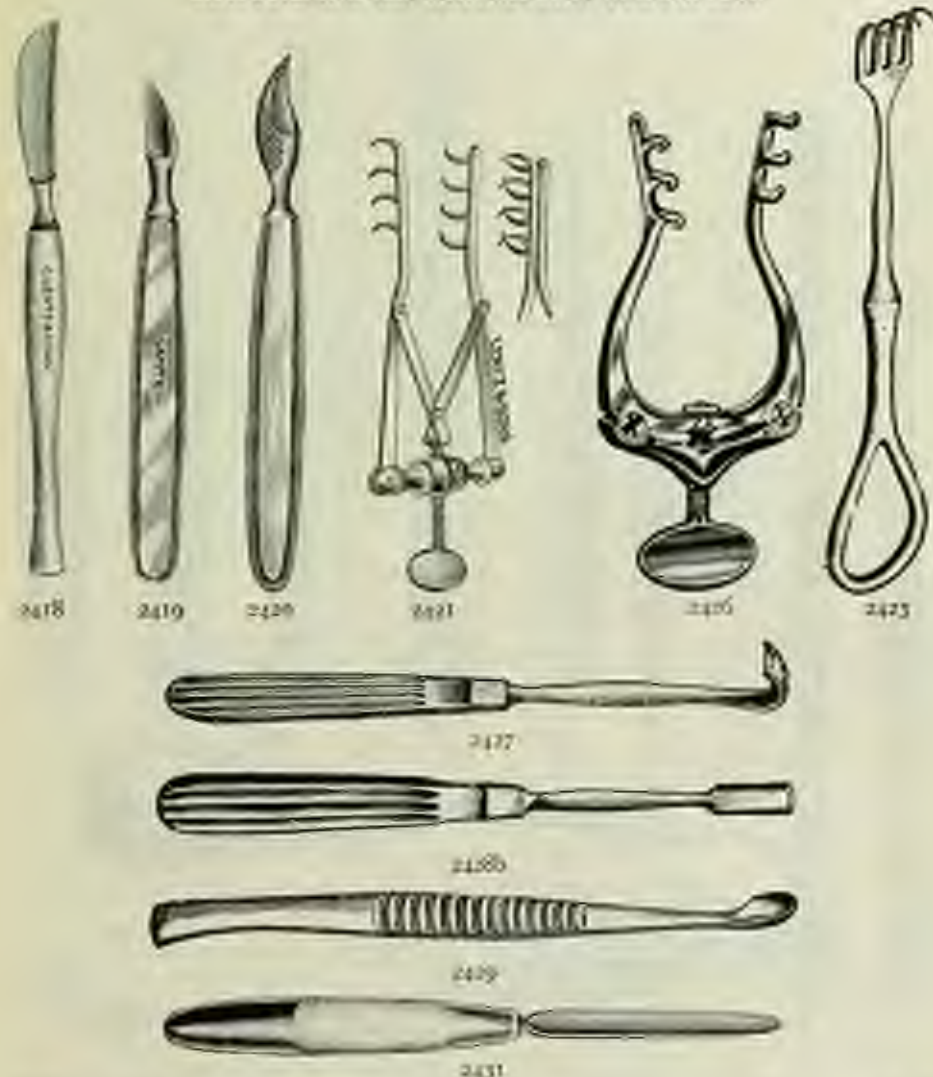
HOOKS, TENOTOMES AND SETS OF INSTRUMENTS FOR MIDDLE EAR.



- | | | |
|-------|---|-----------|
| 2409. | Souges Hook, Dench's, in handle, malleable shaft | 81 75 |
| 2410. | " " Hewitt's, to fit universal handle | 1 90 |
| 2411. | " " Allport's | 1 35 |
| 2412. | Tenotome, Schwartz's, right or left | each 1 50 |
| 2413. | " " Dench's, angular blade, right, for removing ossicles | 1 75 |
| 2414. | " " " " left | 1 25 |
| 2415. | Perforator, " " " " " " | 1 75 |
| 2416. | Knife, " " " " " " | 1 50 |
| 2417. | Sexton's Set of Ear Instruments, containing 1 universal handle, Polypus Snare, Myringotome, Sharp-pointed Knife, Probe-pointed Knife, Steel Silver Probe, Applicator, Hoe-shaped Scraper, in fine case | 7 00 |
| 2418. | Pollitzer's Set of Ear Instruments, containing 1 handle with straight and bent sockets, 2 Sharp Curettes, 1 Spoon, 1 Tentaculum, 1 Cotton Carrier, 1 Probe, 1 Perforator, 1 Blunt and 1 Sharp Pointed Knife, 1 Paracentesis Needle, 1 Cystostome, in a neat case | 10 00 |
| 2419. | Dench's Set of Instruments for Middle Ear, containing 1 straight curette; 1 probe-point, double edged knife, curved on flat; 1 sharp knife, straight; 2 incus hooks, right and left; 2 angular knives; 1 blunt knife, straight; 2 angular curettes, right and left; 1 universal handle for above, with straight and angular shank, in fine case | 11 00 |
| 2420. | Bishop's Set of 15 Ear Instruments and universal handle, in metal case and steel frame carrying bag | 14 00 |

Ear Instruments.

MASTOID KNIVES, RETRACTORS, ELEVATORS.



2418.*	Mastoid Knife, Beck's	\$1.10
2419.*	" " Burnett's	1.15
2420.*	" " Politzer's	1.25
2421.*	Retractor, Allport's	3.50
2422.*	" " Beck's	7.50
2423.*	" " Volkmann's, with 2 or 3 prongs, \$1.00; 4 prongs	1.25
2424.*	" " Thomer's	per pair 1.00
2425.*	" " Jansen's	4.00
2427.*	Elevator, Periosteal, Langenbeck's	1.25
2428.*	" " Hartmann's, straight edge	1.25
2429.*	" " " " convex edge	1.25
2430.*	" " " " and Curran, Ferguson's	1.50
2431.*	" " " " Bacon's	1.25
2431.*	Periosteotome, Allport's	1.50

All instruments illustrated are designated by a *

Ear Instruments.

MASTOID CHISELS AND GOUGES.



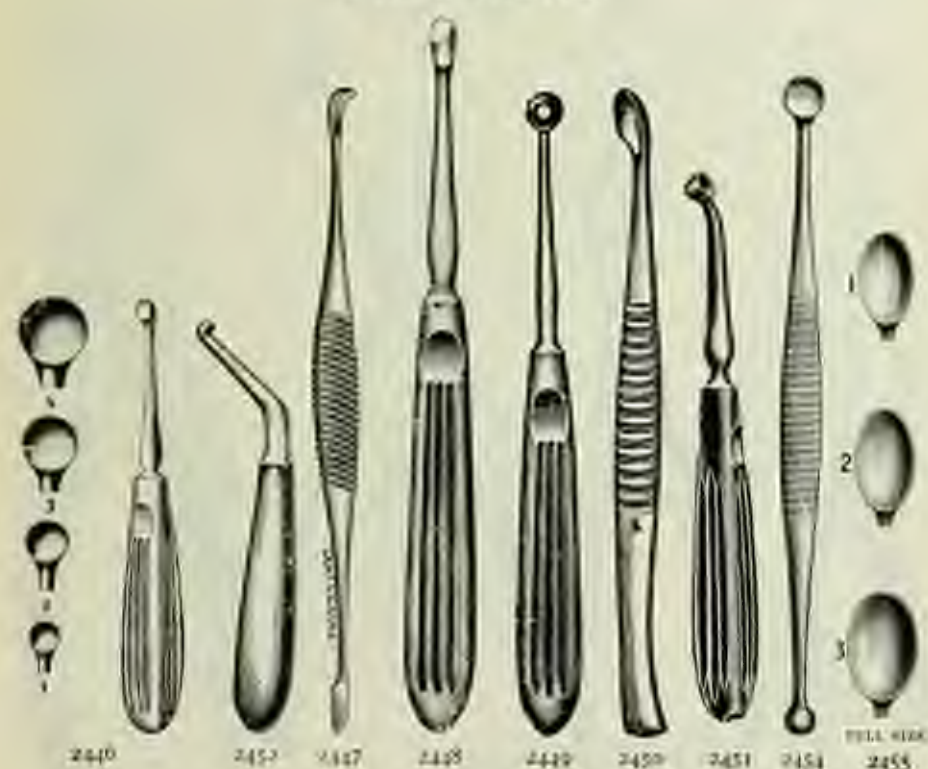
2436*	Mastoid	Chisel, Bishop's, four widths	each	\$1.00
2437*	"	Gouge, " "	"	1.00
2438*	"	Chisel, Schwartz's, four widths	"	.65
2439*	"	Gouge, " "	"	.75
2440*	"	Chisel, Hajek's, " " 3, 6, 9, 12 mm.	"	2.10
2441*	"	Gouge, " " 3, 6, 9, 12 mm.	"	2.25
2442*	"	Chisel, Whiting's, " " 3 to 15 mm.	"	2.00
2443*	"	Gouge, " " 3 to 15 mm.	"	2.25
2444*	"	" Randall's, one width, heavy handle	"	1.00
2445*	"	Seymanowsky's, three widths, 3, 5, 7 mm.	"	2.00

All instruments illustrated are designated by a *.

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Ear Instruments.

MASTOID CURETTES.



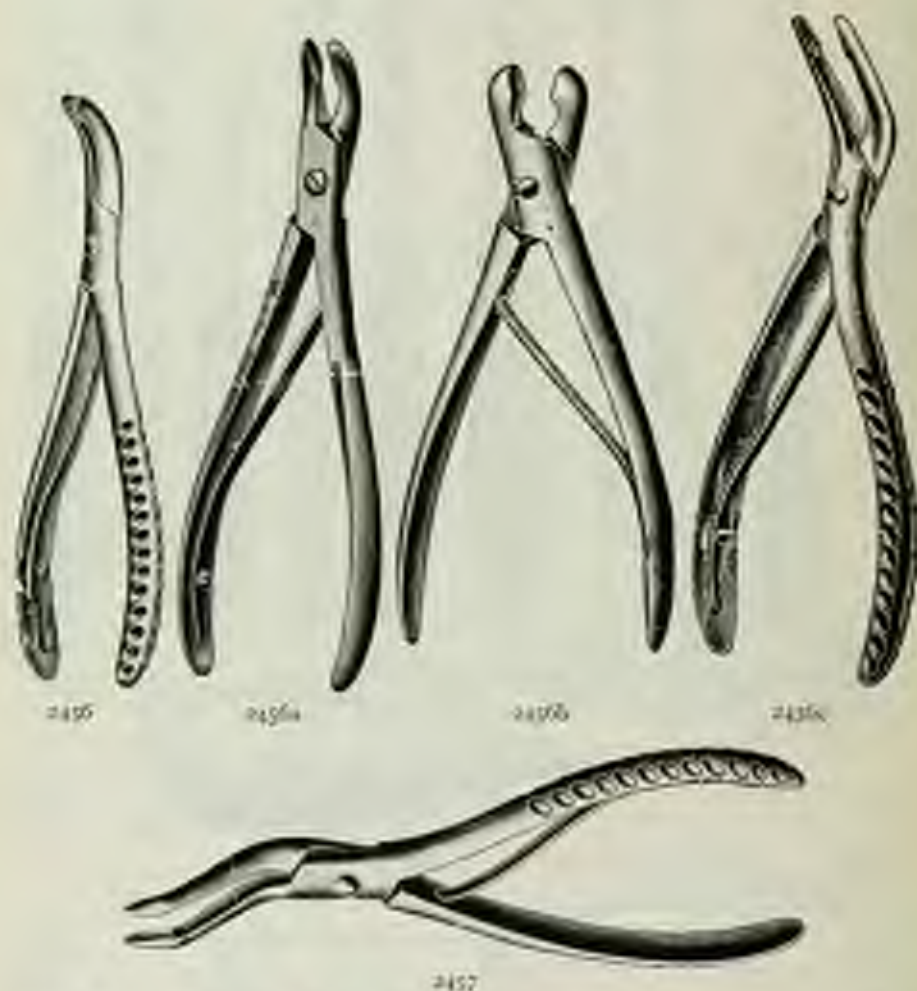
2453

2446.*	Mastoid Curette,	Buck's, four sizes	each	\$1.25
2447.*	"	Gleason's, double end, round and oval spoons . . .	1.75	
2448.*	"	Whiting's, solid spoon, four sizes	each	1.75
2449.*	"	" fenestrated spoon, three sizes	"	1.75
2450.*	"	" and Elevator	1.25	
2451.*	"	Richards', three sizes	each	2.75
2452.*	"	Katz's " "	"	2.00
2453.*	"	McKernan's, four sizes	"	2.75
2454.*	"	Volkman's, double end, round spoons, 6 inches long . . .	1.50	
2455.*	"	" " single, oval or round spoon	1.50	
2455a.	"	Bath's, double end, narrow spoons, two sizes	each	1.50
2455b.	"	Price's	2.50	

All instruments illustrated are designated by a *.

Ear Instruments.

MASTOID RONGEUR FORCEPS.

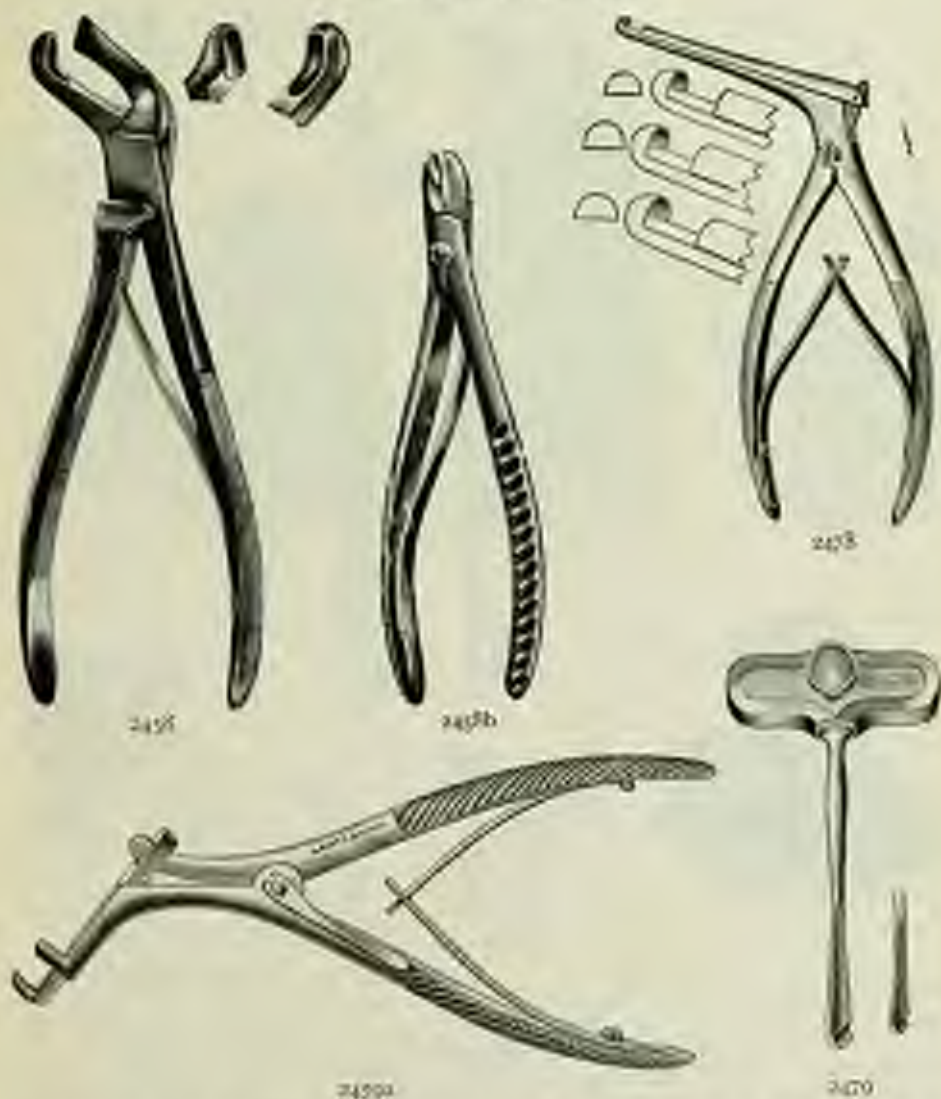


2456.*	Mastoid Rongeur Forceps,	Lucas-Hartmann's, full curved	\$3.25
2456a.*	"	Bones', curved	3.00
2456b.*	"	Whiting's	3.50
2456c.*	"	Lucas's, curved	4.00
2457.*	"	Jansen's, double curved	5.00
2457a.	"	Hartmann's, angular to side	3.50
2457b.	"	Hopkins', small	2.00
2457c.	"	Hoffman's	2.50

*All instruments illustrated are designated by a *.*

Ear Instruments.

MASTOID RONGEUR FORCEPS.



2458.*	Mastoid Rongeur Forceps,	Lombard's French joint, \$5.75; box joint	\$6.50
2458a.	"	Baron's	4.00
2458b.*	"	Lucas-Hartmann's, slightly curved	3.00
2459.	"	Killian's	4.00
2459a.*	"	Allport's	10.00
2459b.	"	Corneilini's	12.50
2478.*	Tympanic	Kerrison's, three sizes	each 7.50
2479a.*	Mastoid Drills, Buck's, set of three, with one handle		3.00
2479b.	"	Drill, Wilson's, with adjustable guard	3.75
2479c.	"	Trephine and Bone-head, Randall's, with one handle	5.00

All instruments illustrated are designated by a *.

Ear Instruments.

AIDS TO HEARING.



2460.* "London" Hearing Horn, size 1-2½ in. high x 2 in. diameter	\$1.50
" 2-3 " " x 2¼ " "	4.00
" 3-3½ " " x 2½ " "	4.00
" 4-4½ " " x 2¾ " "	4.50
" 5-6 " " x 3¼ " "	4.50

Registered mail, 15 cents.

This hearing instrument is nearly universally used by those who are in any manner troubled with deafness. It is made on scientific principles, of bell metal, elegantly finished and either coated in dead black or nickel plated, and is of such size that it can scarcely be seen when held in the hand.

The largest size is especially recommended for use in church, lecture hall, etc., as it facilitates the hearing at long distance with comfort.

2461.* "Duplex London" Horn	\$2.00
-----------------------------	--------

Registered mail, 15 cents.

Made on the same principles as the "London" Horn, with the addition of a perforated dome top, which enables the person to hear speakers in back as well as in front of the instrument. By many it is considered more powerful generally than the "London" Horn. It is made only in the large size, coated in dead black or nickel plated.

2462.* Acustophone; a peculiarly constructed instrument which in a large measure overcomes the sonorous sound complained of in using various trumpets.

The Acustophone is small enough to be concealed by the palm of the hand. Made in two sizes, finished in dead black.

Small size, 1½ in. high x 1½ in. diameter	\$5.50
Large " 2½ " " x 2½ " "	6.50

Registered mail, 15 cents.

To facilitate selection, we allow one or more hearing instruments on a ten days' trial.

Ear Instruments.

AIDS TO HEARING. I



2453



2455



2456



2454

2453-4 **Grand Opera Dome**, made in three sizes, small enough to be carried conveniently in the pocket.

Size 1—2 3/4 in. high x 7 in. diameter	\$4.00
" 2—3 in. " 8 1/2 "	4.50
" 3—3 1/2 " 10 1/2 "	5.00

Registered mail, 10 cents.

Made of hammered bell metal, and coated with a jet black laculation thoroughly baked on inside and outside. This insulation prevents the advantage that it excludes the roaring or hissing noises experienced in most hearing instruments.

2454-5 **Trumpet**, long pattern, tin, japanned; made in five sizes.

Size 1. Diameter, 3 1/4 inches	\$1.25
" 2. " 4 1/2 "	1.50
" 3. " 5 "	1.75
" 4. " 5 1/2 "	2.00
" 5. " 6 1/4 "	2.25

This trumpet, while simple in construction and inexpensive, has proven a great help to many, and is often the only instrument that will assist some persons who are very deaf in general conversation at home or in public halls. The greater the diameter of the mouth, or, in other words, the larger the opening of the trumpet, the greater is the power of magnifying sound.

The tin trumpet is constructed of two parts, reversible for right or left ear, and is neatly japanned.

2455-6 **Trumpet**, short pattern, tin, japanned. \$1.00

Very compact and more easily to carry than fig. 2454. It is very powerful, but will not answer in all cases. One size only.

2456-8 **Auricles**. Registered mail, 20 cents. per pair \$4.00

Registered mail, 20 cents.

These are a very convenient appliance. They are worn as shown in cut, without being held by the hand.

The spring that reaches over the head is adjustable to fit any head, and the sound is conveyed to both ears at the same time. They are especially adapted to table conversation, or when engaged in housework, sewing, writing, etc., where the use of the hands are required. They are made of brass and covered with black silk; made in three sizes.

To facilitate selection, we allow one or more hearing instruments on a ten days' trial.

Ear Instruments.

AIDS TO HEARING. I.



2473



2474



2475



2476



2478

- 2473.* Conversation Tube, straight, 3 feet long, small diameter, silk covered : - \$2.00
 Similar in construction to No. 2470, except that the wire coil is not conical, but straight and of small calibre.
- 2474.* Audifone, with straight tube, 3 feet long : - 5.00
 " " conical " 3 " - 8.00
- 2475.* " Trumpet, the horn part is finished in jet black.
 The Audifone is a combination of either conversation tube or horn with telephonic ear disc. The omission of the ordinary ear tip makes it especially desirable to persons with oversensitive ears. 6.00
- 2476.* Audifone or Conversation Fan; round, one size : - 5.00
 This instrument is used in the manner shown in the illustration, and is only of service where the front teeth are sound.
- 2477.* Grand Opera Dome, hard rubber covered, otherwise similar in shape and size to No. 2470; small, medium or large size : - each 5.00
 Registered mail, 20 cents.
- The roaring noise often complained of in other instruments of this character is entirely eliminated in this one on account of its heavy covering of hard rubber.
- 2478.* Artificial Tympanum, Tryshere's; a round disk of pure rubber, secured to a silver wire stem. (Not sent on trial) : - 50

All instruments illustrated are designated by a *

To facilitate selection, we allow one or more hearing instruments on a ten days' trial.

Section V.
Nasal Instruments.
SPECULA.



2490



2491



2492



2493



2494



2495



2496



2500



2501



2502

2490.*	Speculum, Goodwillie's, two sizes	each \$0.50
2491.*	" " " "	40
2492.*	" " " "	1.00
2493.*	" " " "	1.00
2494.*	" " " "	2.00
2495.	" " " "	1.00
2496.	" " " "	50
2500.*	" " " "	75
2501.*	" " " "	1.25
2502.*	" " " "	1.50

Nasal Instruments.

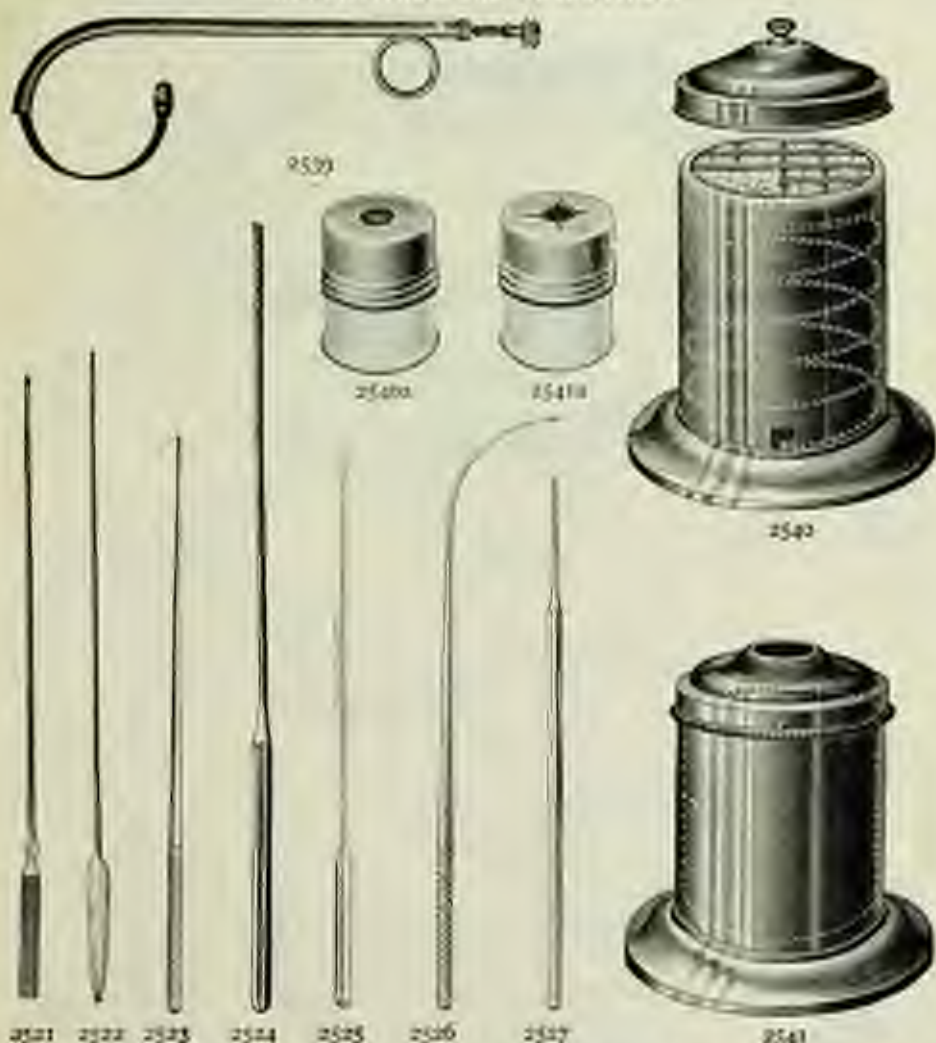
SPECULA.



2503.*	Speculum, Allen's, hard rubber, oral	set of three	\$0.75
2504.*	Speculum's, " " " " " " " "	" " " "	.75
2505.*	Speculum's, metal, 3 sizes	each, box	1.50
2506.*	Clifford's, insular, metal	" " " "	1.00
2507.*	Jarvis', plain, ring catch	" " " "	.50
2508.*	Robert & Collier's	" " " "	.50
2509.*	Freeman's, long curved handle, without set screw	" " " "	1.00
2510.*	Roth's, bivalve, with set screw	" " " "	1.00
2511.*	Truss', wire, with solid blades	" " " "	.50
2512.*	Watson's, wire	" " " "	.50
2513.*	Lagel's	" " " "	.50
2514.*	Confort's	" " " "	1.00
2515.*	Ralph Seis', bivalve	" " " "	1.00
2516.*	Killack's, steel blades 2 1/2 or 3 1/2 in. long	each	2.50
2517.*	Chadwick's and by G. M. Marshall	" " " "	2.75
2518.*	Mossmann's	" " " "	4.00
2518a.*	Hartmann's, bivalve	" " " "	1.25
2519.*	Allen-Hoffmann's, wire, right and left	each	.50
2520.*	Vicini's, bivalve	" " " "	1.00
2521.*	Bivalve, Rheinisch's (see page 221)	" " " "	1.00

Nasal Instruments.

APPLICATORS AND RESERVOIRS.



2529.*	Cotton Applicator, Allen's, tapering, steel, fine . . . dozen, \$1 25; each \$0 15	
2530.*	" " " " aluminum handle; . . . dozen, \$2 00; " 20	
2531.*	" " " Kyle's " " triangle end; . . . dozen, \$2 00; " 20	
2532.*	" " " spiral end, long . . . \$2 00; " 20	
2533.*	" " " plain, steel . . . sec.; " 10	
2537.*	" " " Ivins', steel, fine . . . " 20	
2538.*	" " " post-nasal, steel . . . " 25	
2539.	" Carr's, long tapering, steel, fine . . . " 25	
2531.	Acid Applicator, McCoy's, flexible, lever movement . . . 4 50	
2539.*	Canula, Bellocq's, for epistaxis, silver plated . . . 1 00	
2540.*	Rescuer for Cotton, Phillips', improved . . . 1 50	
2540a.*	" " " Farrell's . . . 90	
2541.*	" " Waste Cotton, Campbell's . . . 1 50	
2541a.*	" " " Farrell's . . . 75	

All instruments illustrated are designated by a *

Nasal Instruments.

SYRINGES AND DOUCHES.

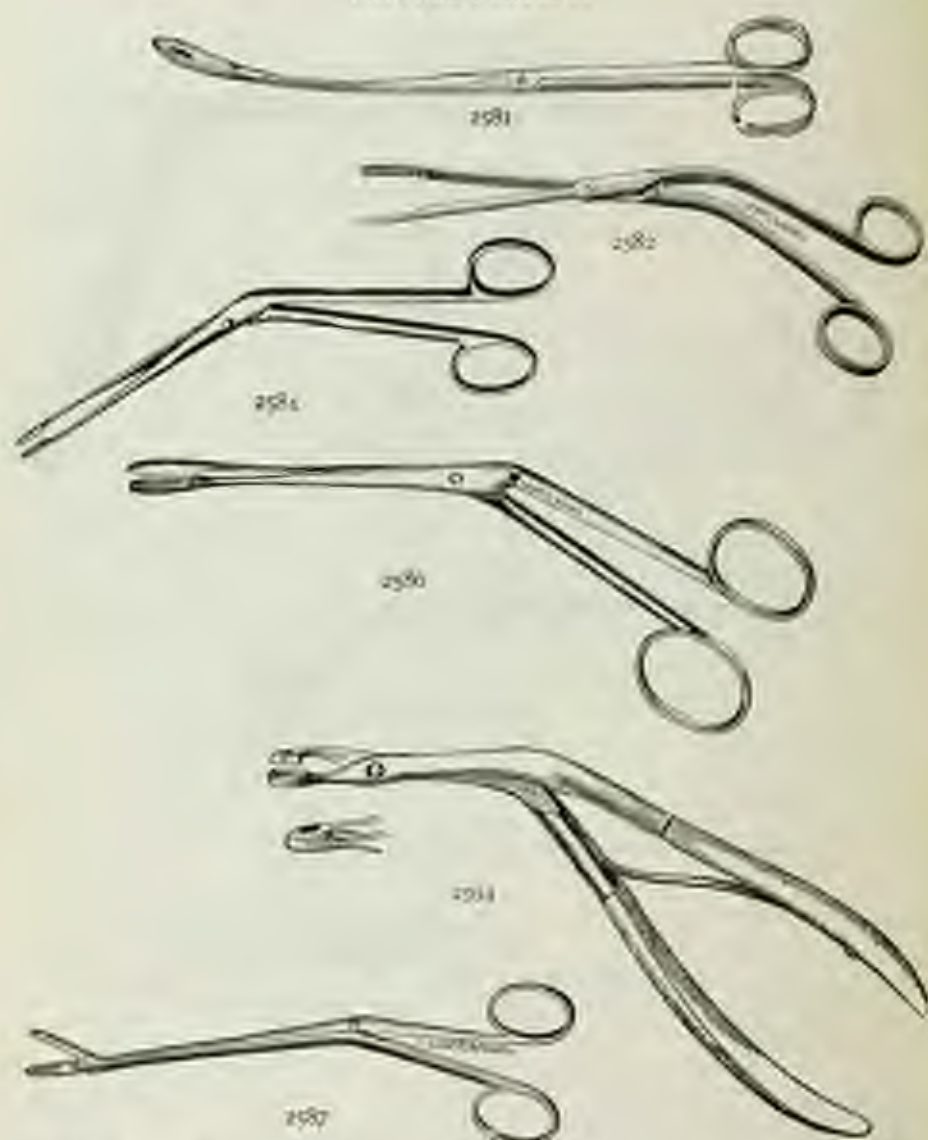


2543.*	Post Nasal Syringe, hard rubber, $\frac{1}{2}$ oz.	.....	\$0 85
2544.*	Warner's, hard rubber tube	.....	75
2545.*	Nasal Spray, Shoemaker's,	dozen, \$7 30; each	75
2546.*	" " " " " "	.....	75
2547.*	" " " " " "	.....	75
2548.*	" " " " " "	.....	75
2549.*	" " " " " "	.....	25
2550.*	" " " " " "	.....	25
2551.*	" " " " " "	.....	25
2552.*	" " " " " "	.....	25
2553.*	" " " " " "	.....	25
2553a.*	" " " " " "	.....	25
2553b.*	" " " " " "	.....	25
2553c.*	" " " " " "	.....	25
2553d.*	" " " " " "	.....	25
2553e.*	" " " " " "	.....	25
2553f.*	" " " " " "	.....	25
2553g.*	" " " " " "	.....	25
2553h.*	" " " " " "	.....	25
2553i.*	" " " " " "	.....	25
2553j.*	" " " " " "	.....	25
2553k.*	" " " " " "	.....	25
2553l.*	" " " " " "	.....	25
2553m.*	" " " " " "	.....	25
2553n.*	" " " " " "	.....	25
2553o.*	" " " " " "	.....	25
2553p.*	" " " " " "	.....	25
2553q.*	" " " " " "	.....	25
2553r.*	" " " " " "	.....	25
2553s.*	" " " " " "	.....	25
2553t.*	" " " " " "	.....	25
2553u.*	" " " " " "	.....	25
2553v.*	" " " " " "	.....	25
2553w.*	" " " " " "	.....	25
2553x.*	" " " " " "	.....	25
2553y.*	" " " " " "	.....	25
2553z.*	" " " " " "	.....	25

Powder Blowers and Atomizers see Throat Instruments.

Nasal Instruments.

POLYPUS FORCEPS.

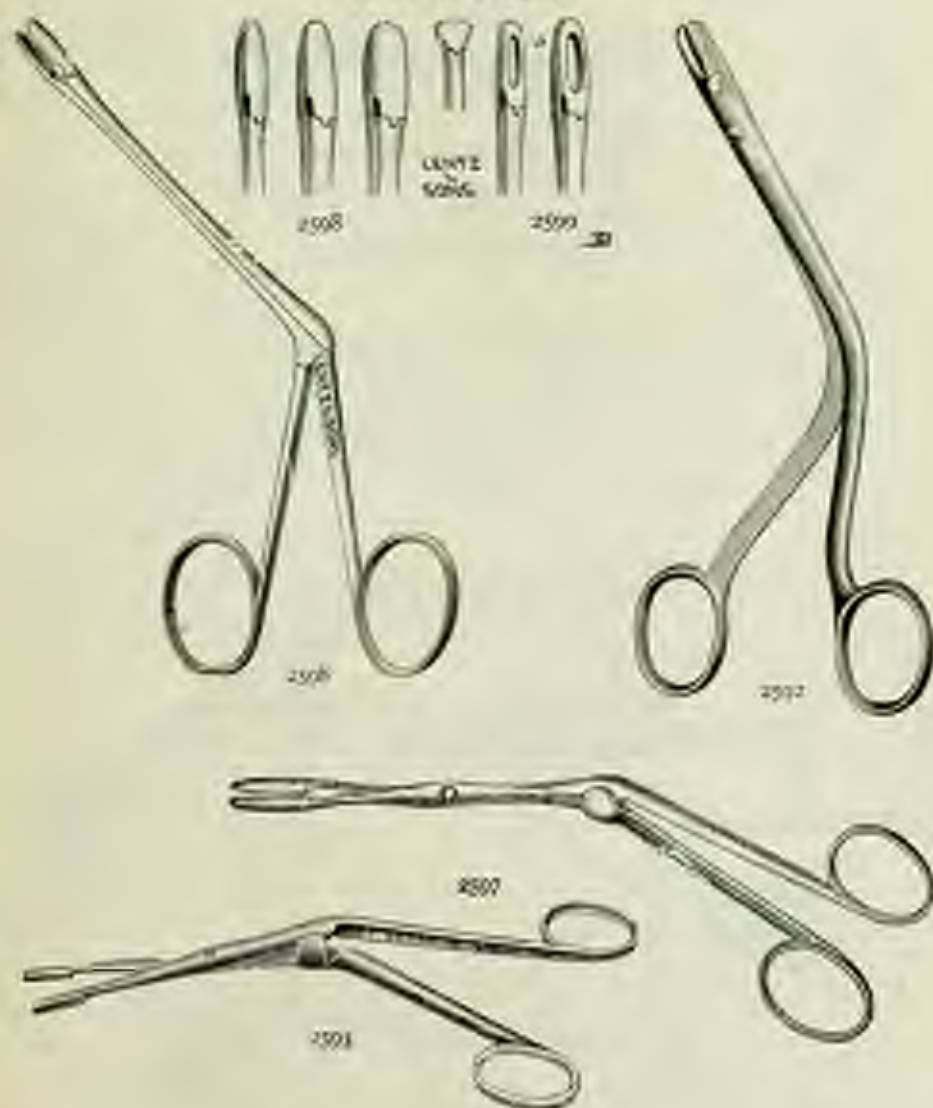


2581.*	Polypus Forceps, Gemo's	\$1.25
2582.*	" " Barron Allen's	\$1.75; with catch 2.00
2583.*	" " Hartmann's	\$1.50; with catch 1.75
2584.*	" " Knight's	2.00
2585.*	" " Noyes', alligator jaw	3.50
2586.	" " Starck's	1.75
2587.	" " Muskhoff's, long slender blades	2.00
2588.	" " Berens', very fine points	2.00

*All instruments illustrated are designated by a *.*

Nasal Instruments.

CUTTING FORCEPS.

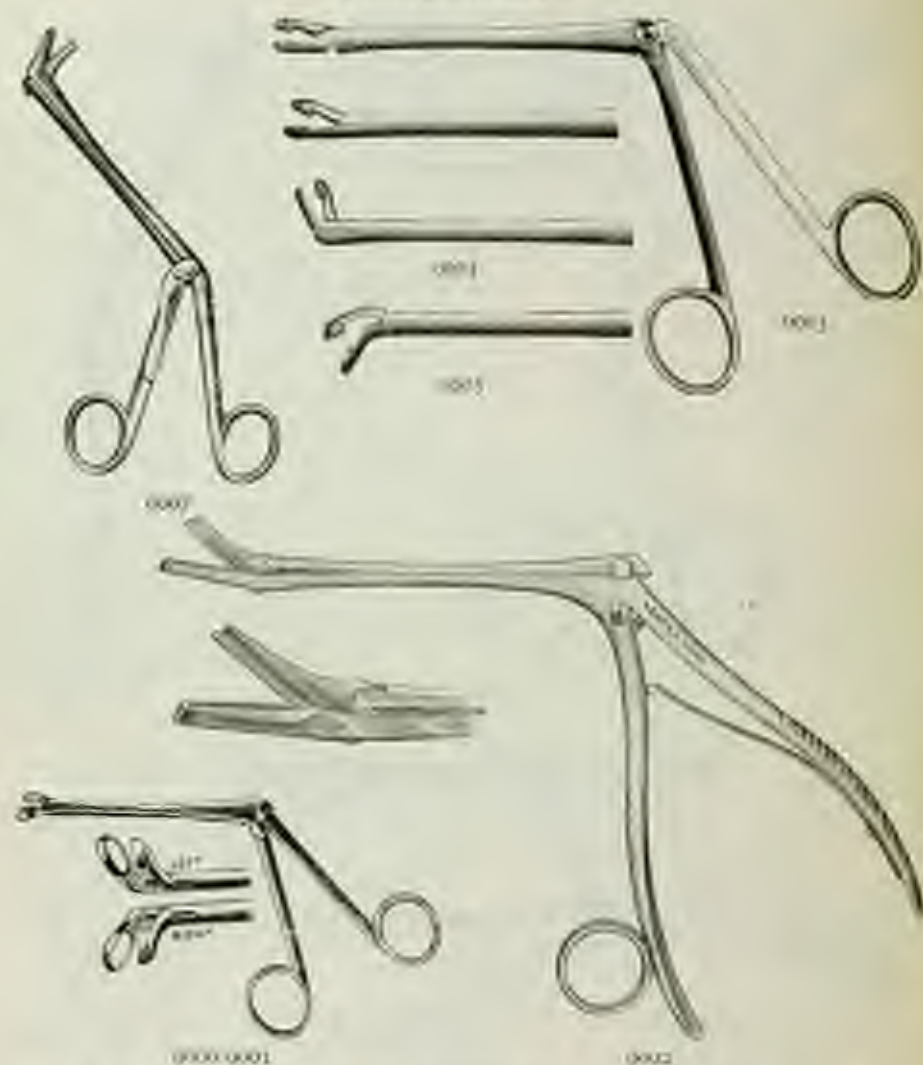


2592*	Cutting Forceps, Fynchon's, pinch firm	\$4.00
2593*	" " Teet's	4.00
2594*	" " Curtis' " " (see illustration on previous page)	6.00
2595*	" " Watson's and Fancham's, pinch firm	6.50
2596*	" " Myles', three sizes	each 7.00
2597*	" " Knight's	3.25
2598*	" " Fancham's, solid blades, four sizes	each 7.50
2599*	" " " " fenestrated blades, two sizes	7.50

All instruments illustrated are designed by A. *

Nasal Instruments.

CUTTING FORCEPS.



0000.*	Cutting Forceps,	Harrison-Greenwald, curved sideways, right and left	each \$3 00
0001.*	"	Harrison-Greenwald, straight, oval, three sizes	" 7 30
0002.*	"	Greenwald-Struycken's, straight, long narrow patch	" 8 30
0003.*	"	Greenwald's, straight, three size patches	" 7 00
0004.*	"	" " " " " " " " " " " "	" 7 50
0005.*	"	" " " " " " " " " " " "	" 7 50
0006.	"	Prince's	" 3 25
0007.*	"	Ethnic	" 6 50
0008.	"	Roe's	" 7 00
0009.	"	Myler	" 7 00
		Dutch's	" 6 25

All instruments illustrated are designated by a *.

Nasal Instruments.

SCISSORS.



2601



2602



2603



2604



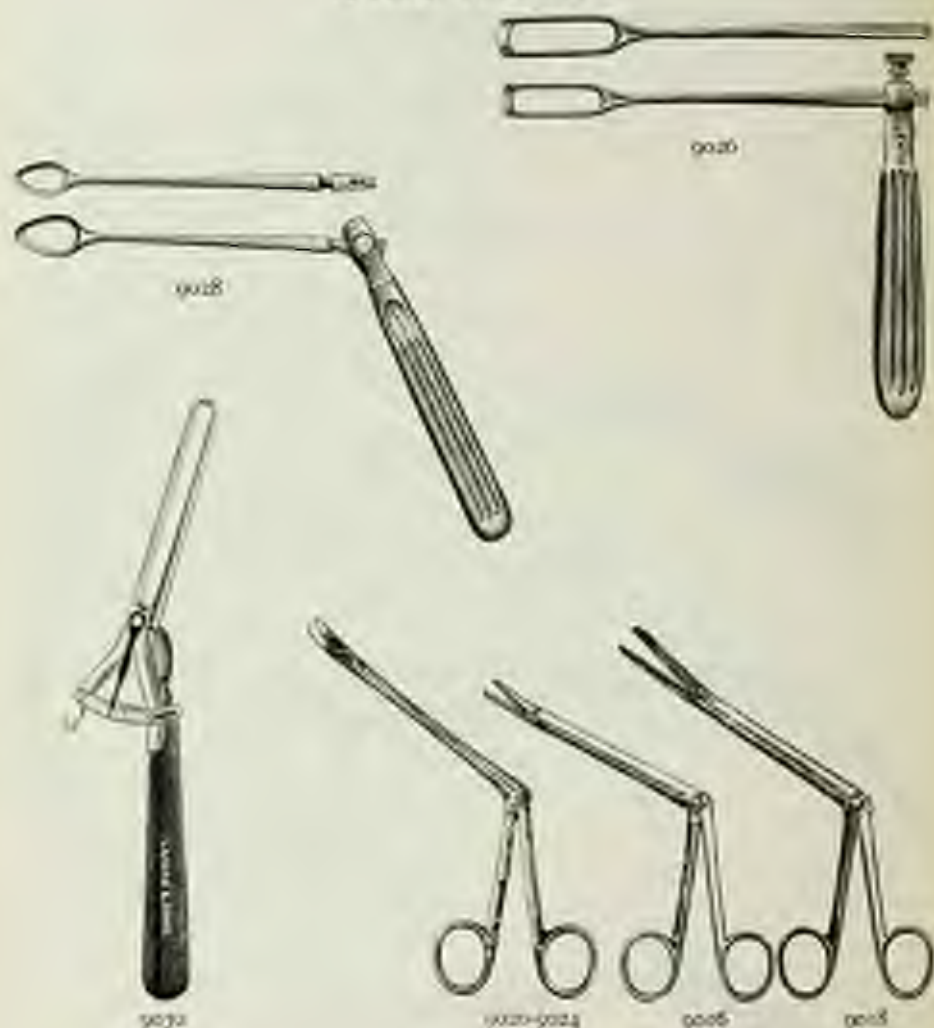
2605

2600.*	Nasal Scissors.	Seiler's	.....	\$2 00
2601.*	"	Patten's, serrated	.....	2 00
2602.	"	Jos. Gibb's mod. Knight, with shank guide	.....	3 00
2603.	"	Sherwell's, serrated, curved to right and left	each	2 50
2604.*	"	Jackson's	.....	3 50
2605.	"	Cassellberry's, serrated	.....	2 50
2606.*	"	Beckmann's, middle turbinate	.....	2 90
2607.*	"	Mueller's	.....	5 25
2607a.	"	Beckmann's, upper turbinate	.....	2 50

*All instruments illustrated are designated by a *.*

Nasal Instruments.

SCISSORS AND KNIVES.

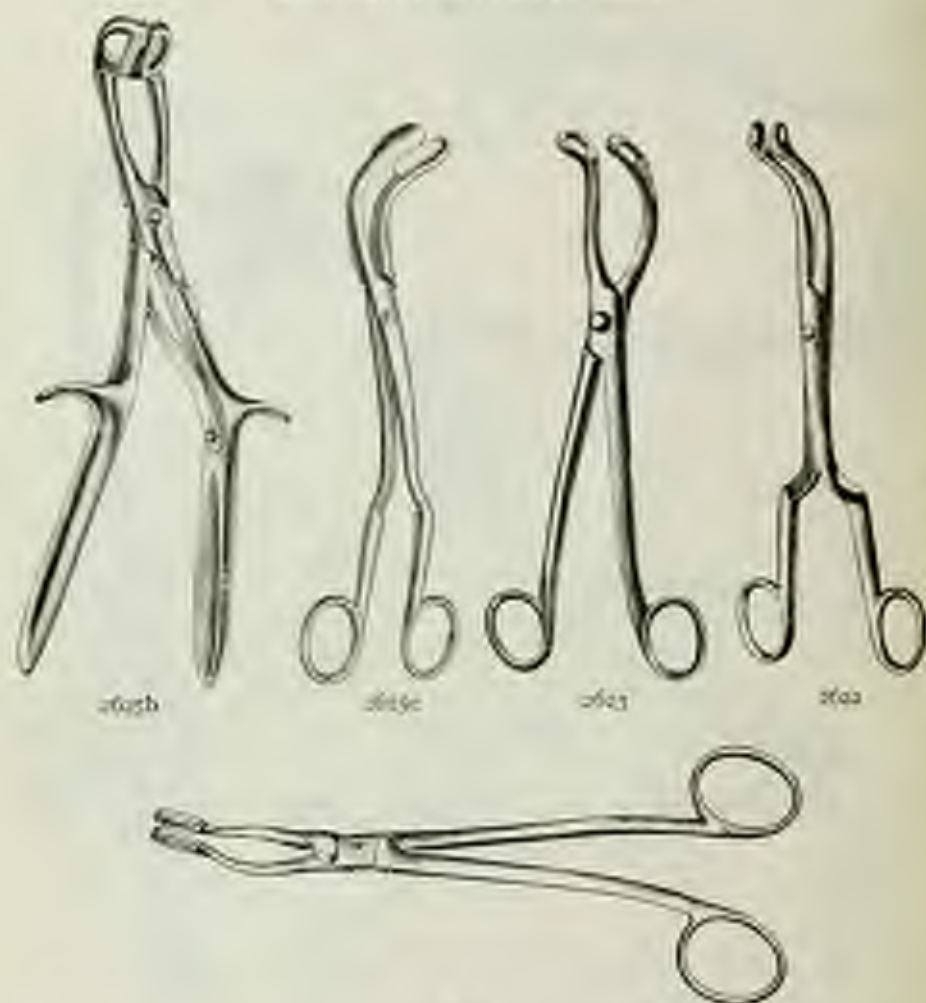


9005*	Nasal Scissors, Grunwald's	\$6 50
9006*	" " Harman's	6 50
9007*	" " Holmes', curved to right	8 25
9008*	" " " " left	8 25
9009*	" " " " upward	8 25
9010*	" " " " for post-nasal	4 00
9011*	Spoke Shave, Carnall-Jones', with two sizes of blades	7 00
9012*	" " Berens', with two sizes of blades	5 50
9013*	Septometer, Sells'	4 50
9014*	Cerchotome, Jansen's, jointed	18 00
9015*	" " Harman's, round	6 50

All instruments illustrated are designated by a *

Nasal Instruments.

POST NASAL CUTTING FORCEPS.



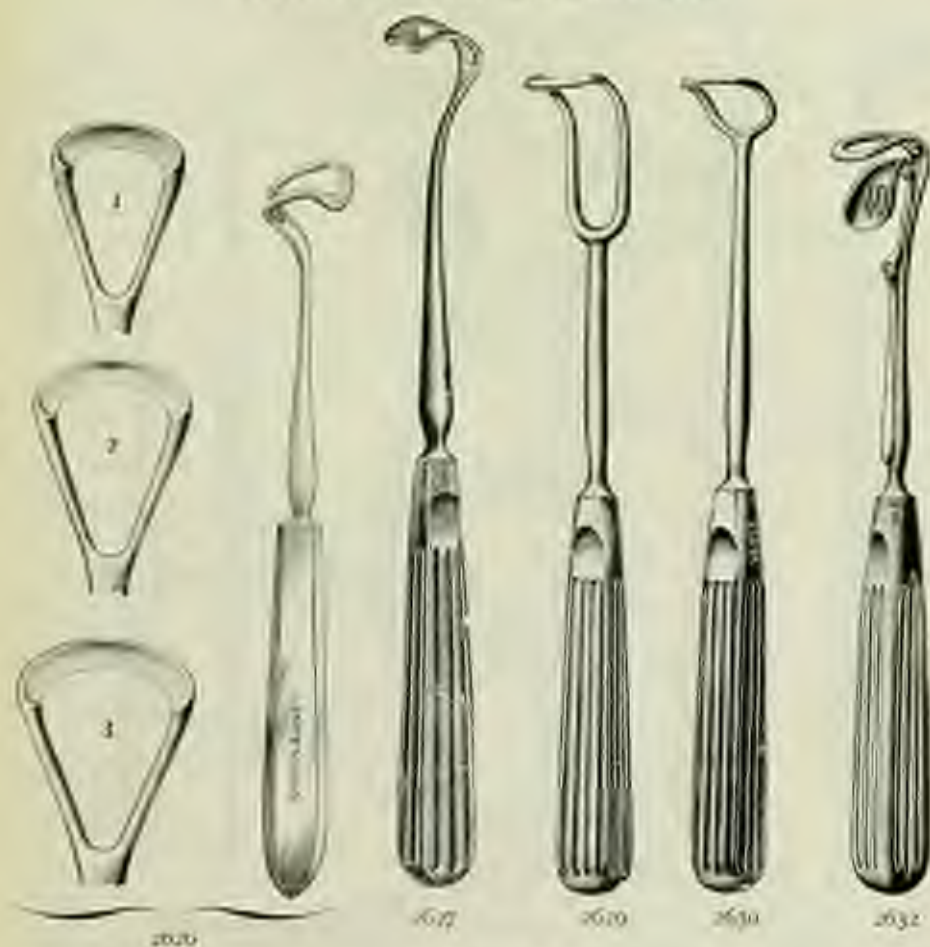
2629a

Post Nasal Cutting Forceps.					
2625b	"	"	"	Hedge's	\$4.25
2626*	"	"	"	Quinlan's	3.50
2627*	"	"	"	Jordan's, three sizes	each 4.00
2628	"	"	"	Brantley's	3.50
2629a	"	"	"	" Improved	6.50
2629a*	"	"	"	St. Clair Thompson's	5.00
2629b*	"	"	"	McAuliffe's	8.00
2629c*	"	"	"	Prinze's	3.50
2629d	"	"	"	French's	1.50

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Nasal Instruments.

CURETTES AND ADENOID RING KNIVES.



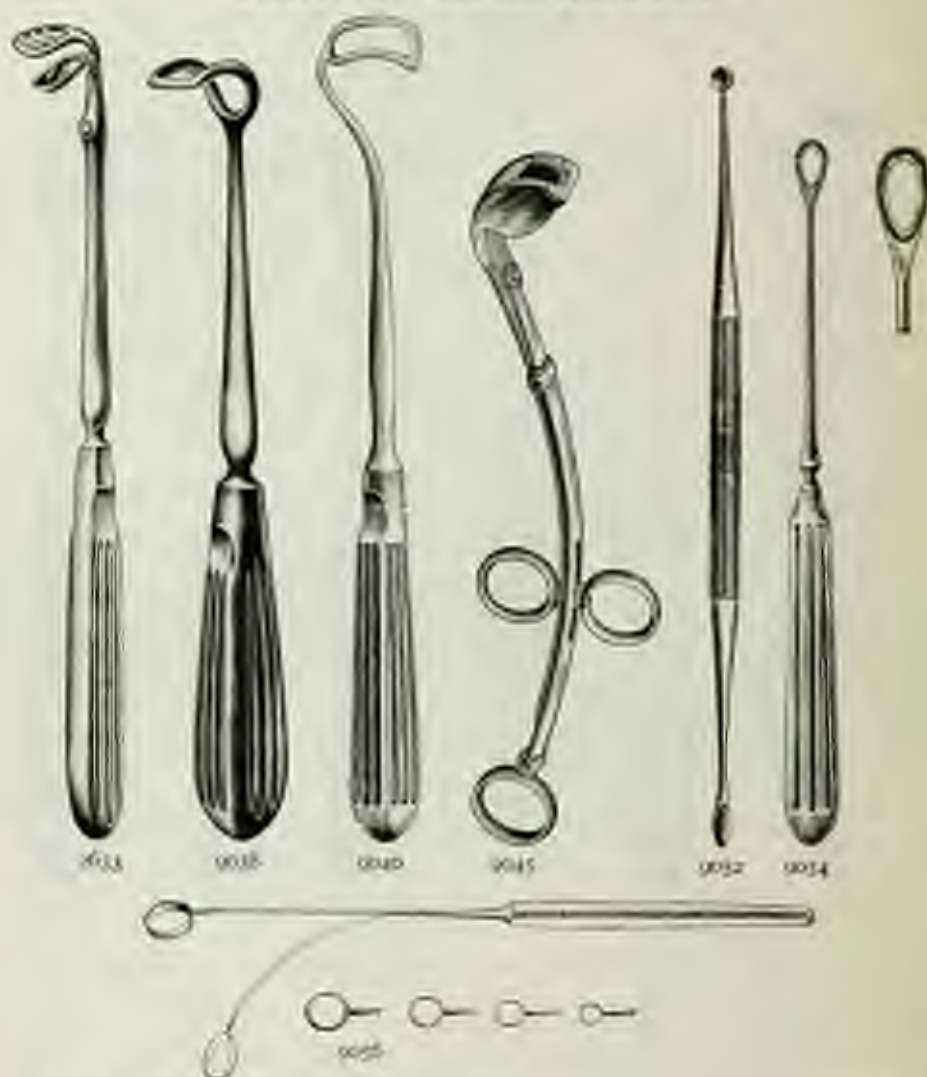
2625.	Adenoid Curette,	Goetsch's, half curved, three sizes	each	\$2 00
2626.*	"	" " full " " "	"	2 00
2627.*	"	" Manger's, curved, one size	"	3 00
2628.	"	" Makens's, one size	"	3 25
2629.*	"	" Kirstein's, three sizes	each	2 00
2630.*	"	" Beckmann's, four sizes	"	2 50
2631.	"	" Macdonald's, two "	"	5 50
2632.*	"	" Deltrach's, original	"	4 50
2633.*	"	" " improved (see page 218)	"	5 00

*All instruments illustrated are designated by a **

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Nasal Instruments.

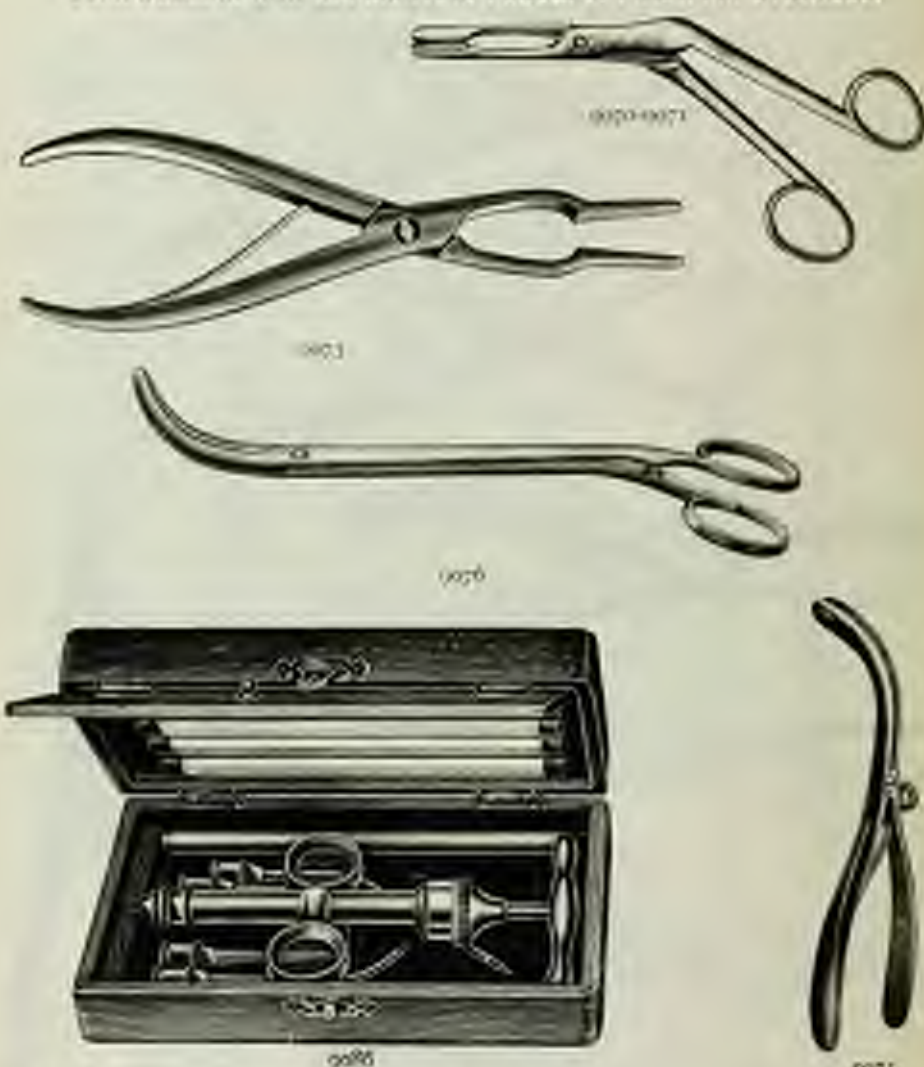
CURETTES AND ADENOID RING KNIVES.



9033*	Adenoid Curette, Barnhill's, four sizes	each	\$2 90
9040*	" " De Roulles', three sizes	"	2 50
9041*	" " Stubbs', three sizes	"	3 00
9042*	" " Ralph Selig', light, use size	"	2 00
9044*	Adenotome, Schuetz's, with one extra blade		12 00
9045*	" " La Fierce's, two sizes	each	10 00
9046*	" " Geadle's, with three blades		12 00
9050*	Nasal Curette, Boecker's, three sizes of spoons	each	1 75
9052*	" " Schaeffer's, double ended spoon	"	1 25
9054*	" " Kyle's	"	1 75
9055*	" " Myles', pliable shank, five sizes	each	1 90
9058*	" " Meure's, sharp		1 00

Nasal Instruments.

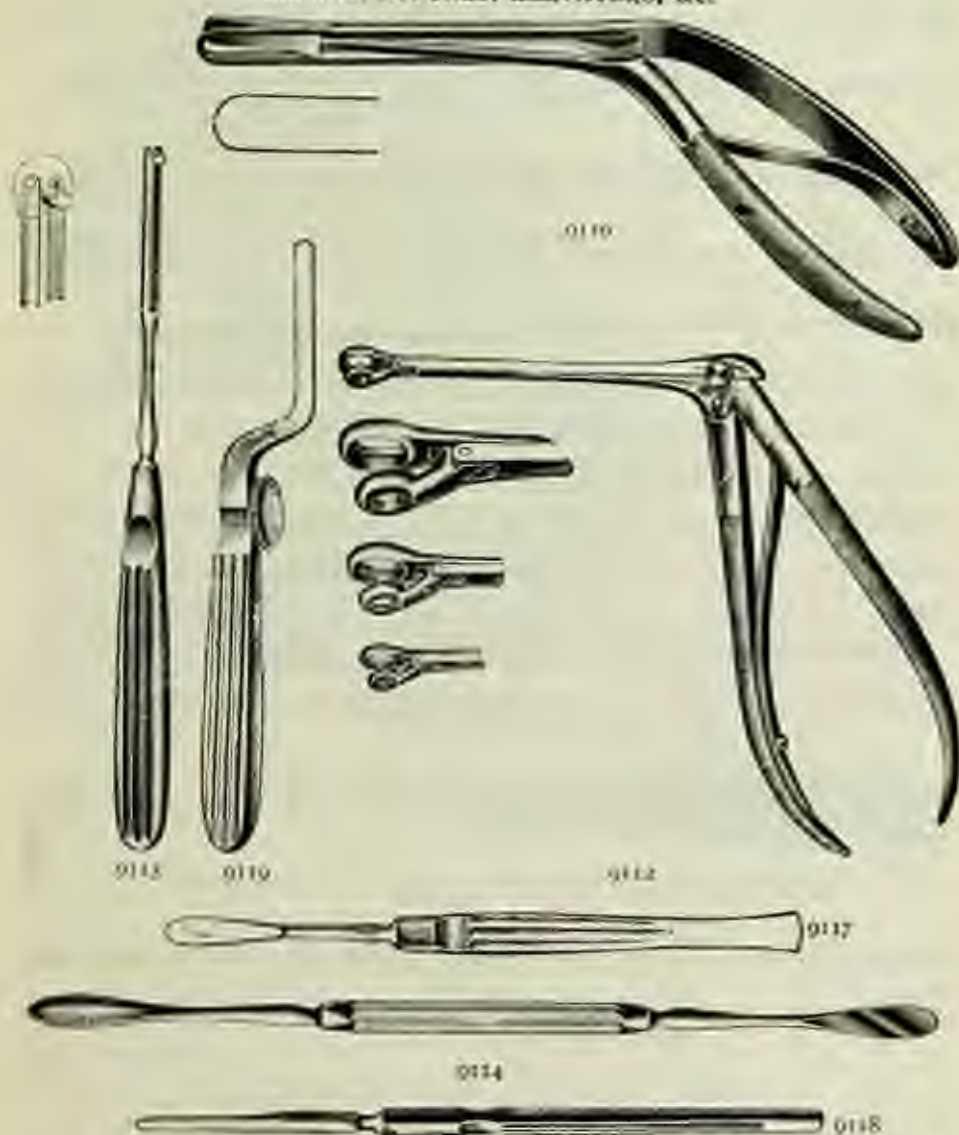
COMPRESSING AND APPLYING FORCEPS, PARAFFIN SYRINGES.



9070.*	Septum Compressing Forceps, Killian's, small	\$3 25
9071.*	" " " " large	3 50
9073.*	" " " " A. W. Watson's	3 00
9075.*	Nasal Dilator, Sineason's, with set screw	3 00
9076.*	Cotton Holding Forceps, Isaac G. Skallerud's	2 25
9077.	" " " " Stillé's	1 85
9078.	" " " " self-retaining (see page 240)	3 00
9079.	" " " " Philip Marvel's (see page 240)	2 45
9085.	Paraffin Syringe, Brocksatz's, for the injection of cold paraffin; complete with six tubes of paraffin, in case	18 00
9086.*	" " " " Onid's, for the injection of cold paraffin, in case	16 50
9087.	" " " " Harmon Smith's, all metal, for soluble paraffin, in metal case	3 50

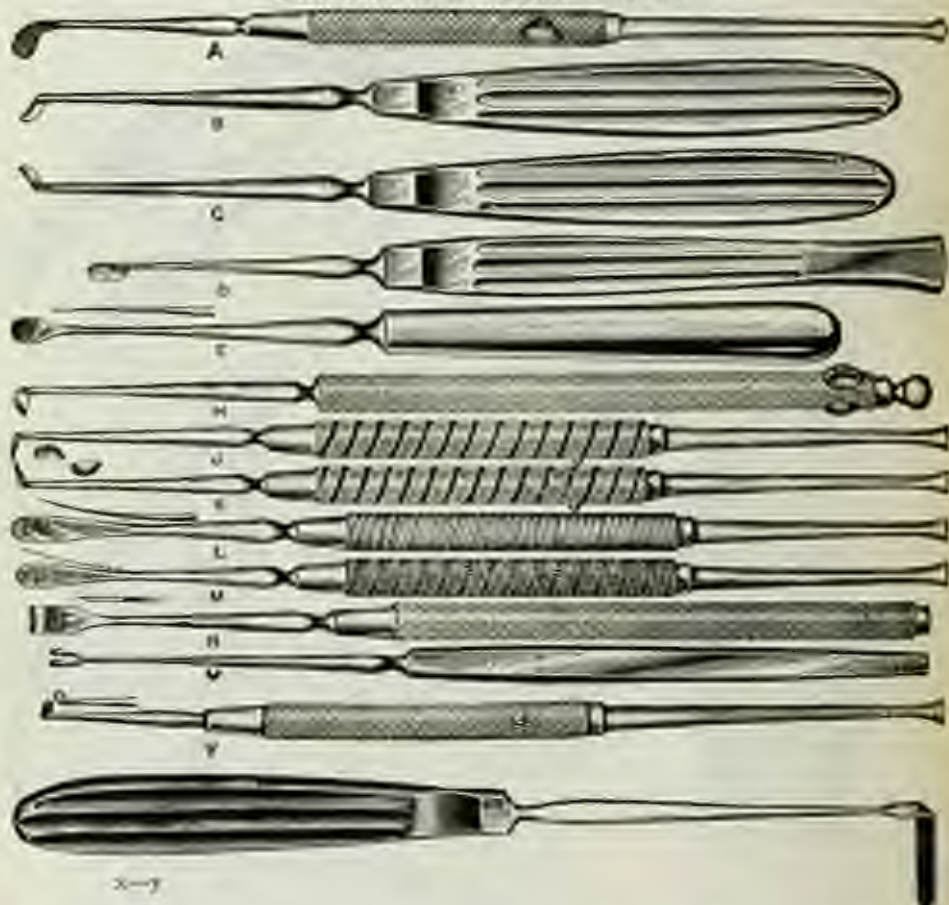
Nasal Instruments.

SEPTUM PUNCHES, ELEVATORS, &c.



9110.*	Septum Punch Forceps, Foerster-Ballenger's, two sizes	each	\$8 00
9112.*	Press-Greenwald's, three	"	8 50
9113.*	Knife, awisel, Ballenger's, two sizes	"	2 75
9113a.	for turbinectomy	"	3 25
9114.*	Elevator, Ballenger-Hajak's, double ended	"	1 50
9115.	Dissector, Goldstein's, sharp and blunt	"	1 50
9116.	Pierce's, sharp and blunt, double ended	"	1 75
9117.*	Elevator, Hajak's, semi-sharp and blunt	"	1 50
9118.*	Killian's, sharp and blunt	"	1 25
9119.*	Bayonet shaped, with finger rest	"	1 75
9120.	Turbineotomy Knife, Slader's, right and left blade	"	2 25
9121.	Submucous Gauze Packer, Beck's	"	1 25
9122.	Turbinate Chisel, Ballenger's, cutting backward	"	2 00

Nasal Instruments. FOR RESECTION OF THE SEPTUM.



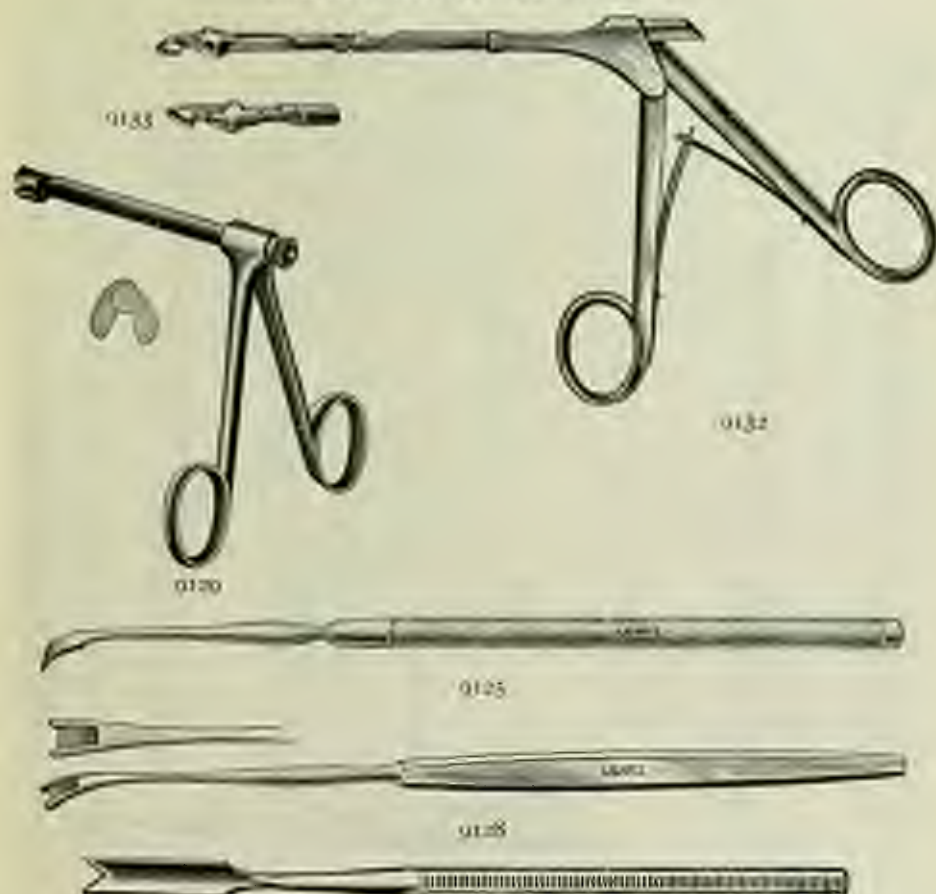
Freer's Instruments for Resection of the Nasal Septum.

0120

a*	Freer's Dissecting Knife, best on edge, round blade	\$1.50
b*	" Cartilage " right	1.50
c*	" Cartilage " left	1.50
d*	" Knife, for vertical incision in mucous membrane	1.50
e*	" " flat, round blade, for dissecting	1.50
f*	" " sub-mucous cartilage	1.50
g-k*	" " sharp pointed, angular, right and left	each 1.50
l*	" Elevator, sharp	1.50
m*	" " blunt	1.50
n*	" Chisel, sharp	1.50
o*	" Double Hook	1.50
p*	" Wire-shaped Separator	1.50
q*	" Gouge, sharp, two widths	each 1.50
r*	" Retractor, three widths, 4 mm., 6 mm. and 8 mm.	each 1.50
s*	" " extra long	1.50

All instruments illustrated are designated by a.*

Nasal Instruments. FOR RESECTION OF THE SEPTUM.

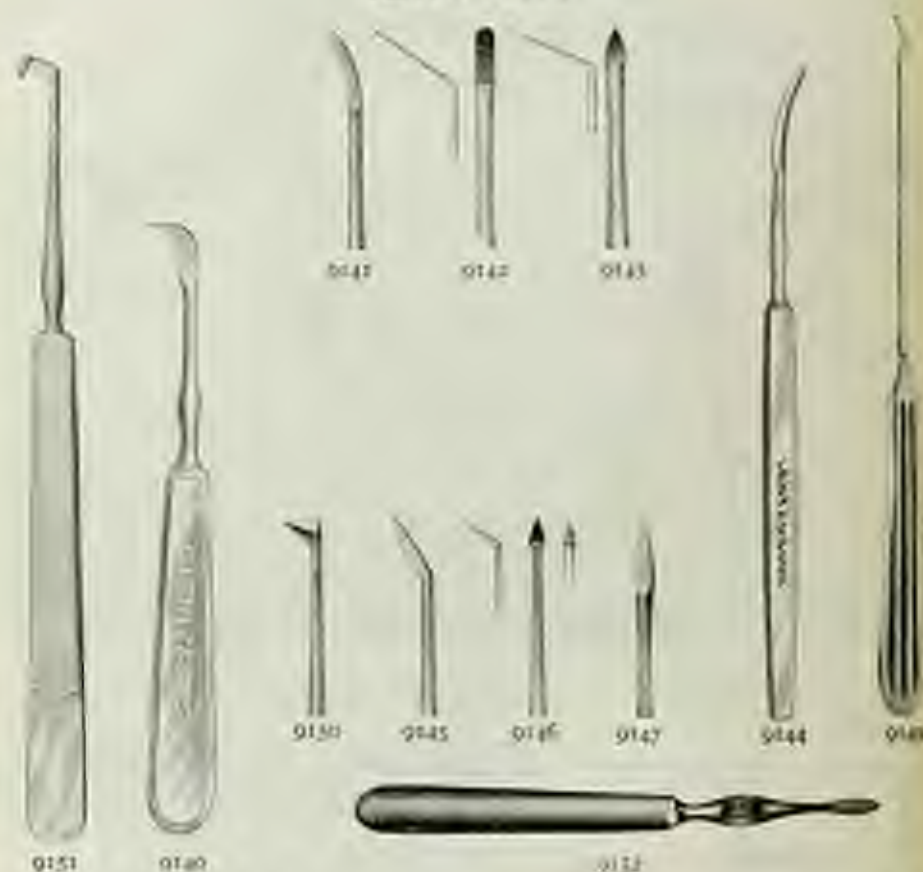


9123.	Resection Set, Killian's, six instruments with one handle	\$6.75
9124.	Guard, Killian's, for chisels and gouges	1.50
9125.*	Periosteal Elevator, Freer's, sharp edge, curved	1.25
9126.*	Gouge, Ballenger's, for removing septal ridges	1.40
9127.	Killian's, bayonet shaped, for removing anterior vomer triangle	1.50
9128.*	Turbinate Chisel, Andrews'	1.75
9129.*	Septum Bone Cutting Forceps, Hurd's, adjustable	8.50
9130.	" " " " MacCoy's, straight	5.00
9131.	" " " " " " curved	5.00
9132.*	Antrum or Sphenoid Punch Forceps, Spies', curved, reversible	12.50
9133.*	" " " " " " Noebel-Cordes', straight, revers.	10.50
9134.	" " " " " " Ostrom's, reversible	14.00
9135.	Estmoid-Turbinate Knife, Ballenger's, right and left	each 2.75
9136.	Turbinate Knife, Ballenger's, right and left	" 2.50
9137.	Exostosis " Ballenger-Killian's	" 2.25

*All instruments illustrated are designated by a *.*

Nasal Instruments.

SEPTUM KNIVES.



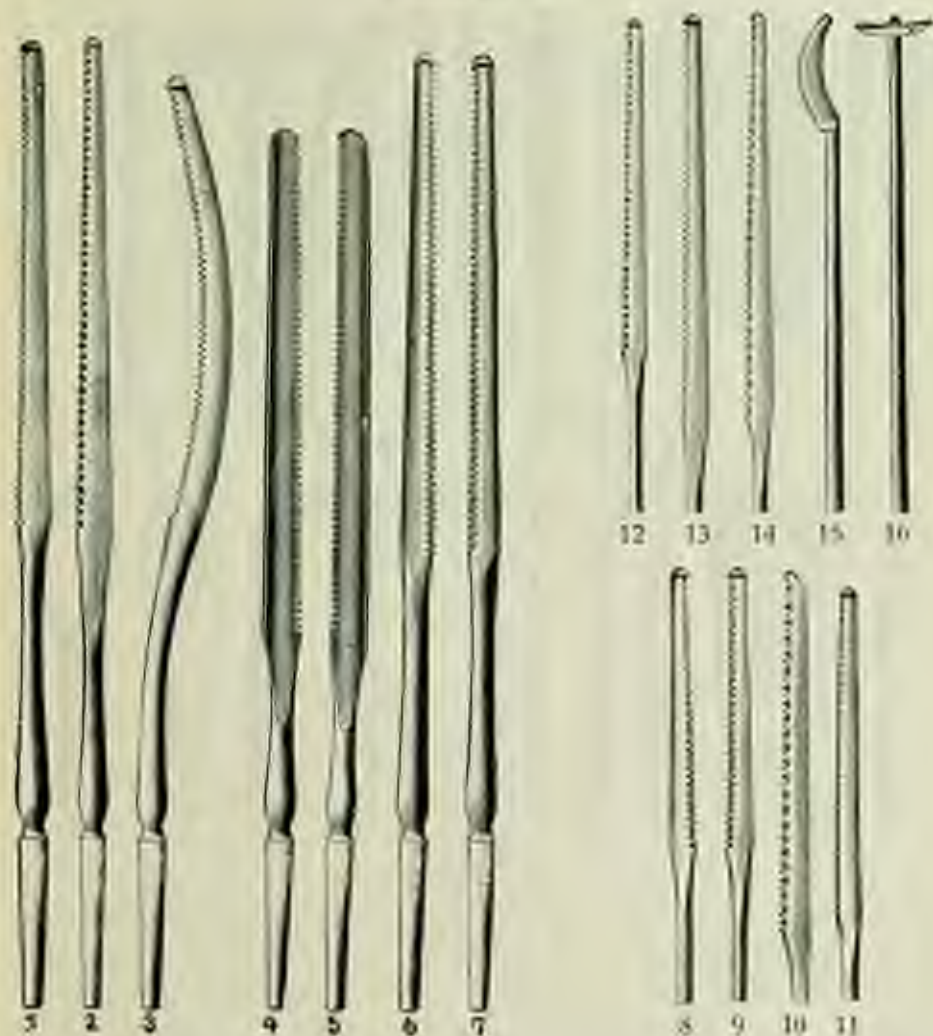
9141.*	Septum Knife, Allen's	\$1.25
9142.*	" " Heymann's	1.50
9143.*	" " Hajek's, right and left	each 1.50
9144.*	" " " double edge	1.50
9145.*	" " Seiler's, " curved on flat	1.25
9146.*	" " Watson's, angular	1.25
9147.*	" " " double edge	1.25
9148.*	" " " straight	1.25
9149.*	" " Arch's	1.00
9150.*	" " Kyle's	1.25
9151.*	" " Douglass', spoon point	1.50
9152.*	" " " hook shaped	1.75
9153.*	" " Ballenger's	1.50
9154.*	" " Chappell's	1.25

All instruments illustrated are designated by a *

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Nasal Instruments.

NASAL SAWS.



1.*	Nasal Saw,	Bosworth's, plain	50	75
2.*	"	Curtis', cross-cut teeth	75	
3.*	"	Cassellberry's	90	
4.*	"	Tyschen's, concave blade, L.	1 00	
5.*	"	" R.	1 00	
6.*	"	McAliff's, beveled edge, L.	1 00	
7.*	"	" R.	1 00	
8.*	"	Half's, beveled edge, L.	1 00	
9.*	"	" R.	1 00	
10.*	"	Salom's, beveled edge	90	
11.*	"	Holmes', beveled edge, thin blade back cutting	1 00	
12.*	"	straight	1 00	
14.*	"	DeVilbiss', beveled edge, eccentric teeth	1 00	
15.*	"	Kyle's, beveled edge, vertical teeth	1 00	
16.*	"	horizontal teeth	1 00	

All instruments illustrated are designated by a *.

Nasal Instruments.

NASAL RASPS, SAWS, KNIVES, ETC.



17.*	Square Saw File, Fergusson's, large	\$1.15
18.*	" " " " " " small	1.15
19.*	Nasal Rasp, plain	1.25
20.*	" " " " " " File	1.25
21.*	Ward Knife, Fuld's	1.25
22.*	Septum Knife, straight, sharp point	1.00
23.*	" " " " " " blunt	1.00
24.*	" " " " " " Kyle's	1.00
25.*	" " " " " " long slight curved	1.10
26.*	" " " " " " Barnes', slightly curved	1.00
27.*	" " " " " " full curved	1.30
28.*	" " " " " " Bishop's	1.30
29.*	" " " " " " Legal's	1.30
30.*	" " " " " " Sellar's	1.25
31.*	" " " " " " Doughlass'	1.25
32.*	" " " " " " Allen's	1.00
33.*	" " " " " " Hajek's, double edge	1.00
34.*	" " " " " " Grinnall's	1.00
35.*	" " " " " " Doughlass', pear shape	1.15
36.*	" " " " " " Legal's', subnasal	1.10
37.*	" " " " " " Spoon	.75
38.*	" " " " " " Elevator	.75
39.*	Excising Knife, Kilian's	1.10
40-42.*	Spoke Shave, Peters', two sizes	1.75

All instruments illustrated are designated by a *

Nasal Instruments.

CURETTES, CHISELS, GOUGES, ETC.



42 1/2.*	Spoke Shaver, Nichols', layest shape	\$2.25
43.*	" " plain, oval	1.75
44.*	" " Fraser's, two sizes	2.00
45.*	" " Major's, " "	1.75
46.*	" " Moore's, " "	2.50
47.*	Nasal Chisel, plain	.75
48.*	" Gouge, " "	.75
51.*	Curette, Graesswald's straight, sharp	1.45
52.*	" " curved up, sharp, small	1.35
53.*	" " " " large	1.35
54.*	" " " " down, sharp	1.35
55.*	" Schaeffer's, oval	1.00
56.*	" " round	1.00
57.*	" Bryant's ethmoid	1.10
58.*	Gouge	.75
59.*	Curette, Hajek's, oval, sharp	1.25
60.*	Spoon " long, sharp	1.25
61.*	" " " " fenestrated	1.50
62.*	Curette, Cookley's antrum, small, curved shank	1.15

*All instruments illustrated are designated by a **

Nasal Instruments.

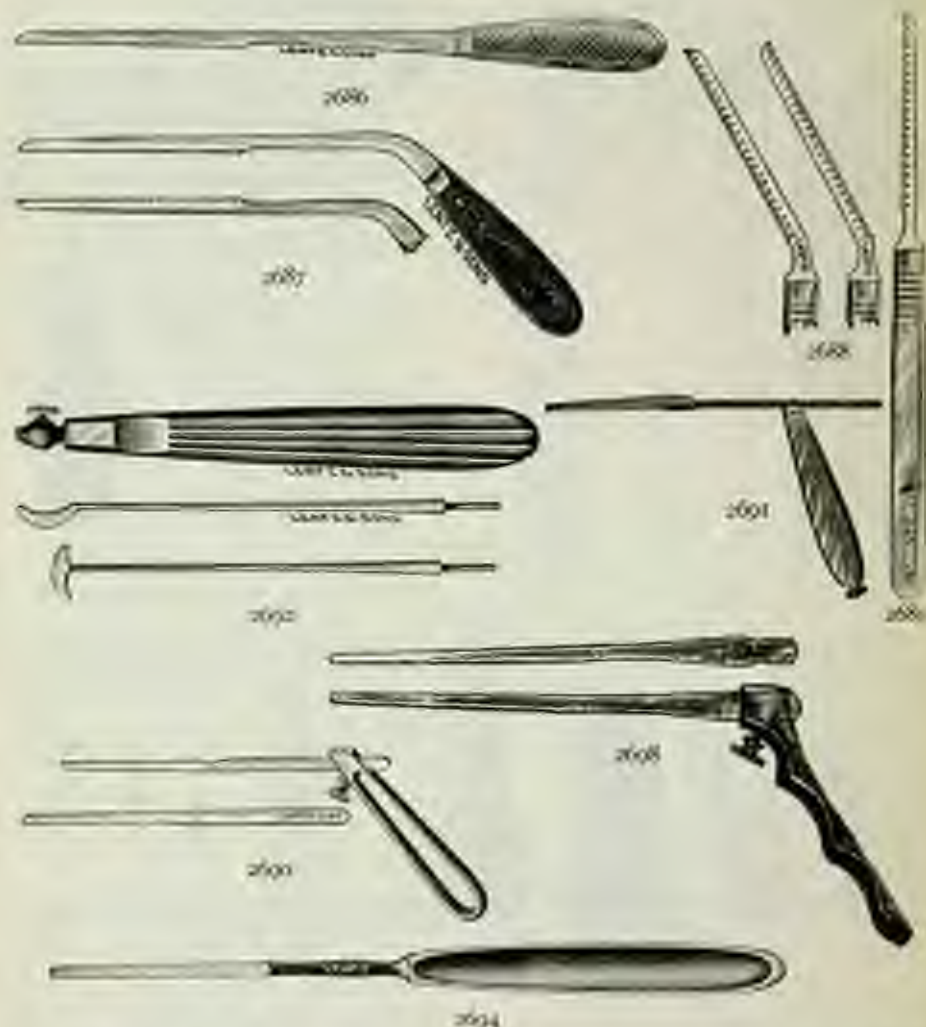
CURETTES, GOUGES, SPOKE SHAVES, ETC.



42.*	Spoke Shave, Nichols', two sizes	each \$2.00
49.*	Nasal Gouge, Hajek's, three sizes	1.00
50.*	Plough Gouge, right and left	1.50
51.*	Curette, Coakley's, anterior, angular	1.15
54.*	" " " " " " " " " " " "	1.15
55.*	" " " " " " " " " " " "	1.15
56.*	" " " " " " " " " " " "	1.15
57.*	" " " " " " " " " " " "	1.15
58.*	" " " " " " " " " " " "	1.00
59.*	" " " " " " " " " " " "	1.00
60.*	" " " " " " " " " " " "	1.00
61.*	" " " " " " " " " " " "	1.00
62.*	" " " " " " " " " " " "	1.00
63.*	" " " " " " " " " " " "	1.00
64.*	" " " " " " " " " " " "	1.00
65.*	" " " " " " " " " " " "	1.00
66.*	" " " " " " " " " " " "	1.00
67.*	" " " " " " " " " " " "	1.00
68.*	" " " " " " " " " " " "	1.00
69.*	" " " " " " " " " " " "	1.00
70.*	" " " " " " " " " " " "	1.00
71.*	" " " " " " " " " " " "	1.00
72.*	" " " " " " " " " " " "	1.00
73.*	" " " " " " " " " " " "	1.00
74.*	" " " " " " " " " " " "	1.00
75.*	" " " " " " " " " " " "	1.00
76.*	" " " " " " " " " " " "	1.00
77.*	" " " " " " " " " " " "	1.00
78.*	" " " " " " " " " " " "	1.00
79.*	" " " " " " " " " " " "	1.00

Nasal Instruments.

SAWS.

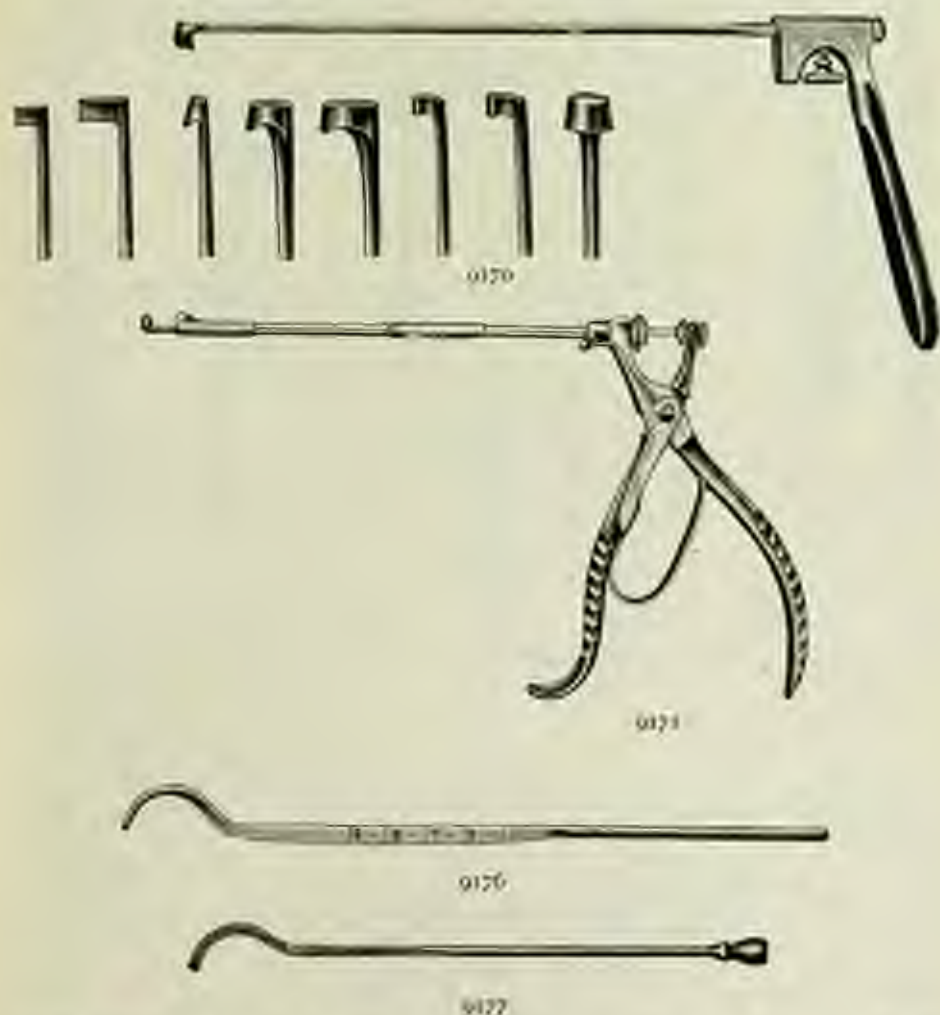


2686.*	Nasal Saw, Bowditch's, straight, hollow metal handle	\$0.25
2687.*	" " " angular, upward and downward, metal handle,	each 1.35
2688.*	" " " Sajon's, " " " " " " " "	1.35
2689.*	" " " " " " " " " " " " " "	1.35
2690.*	" " " Bucklin's, reversible, two blades	2.50
2691.*	" " " De Villiers', " " " " " " " "	1.50
2692.*	" " " Kyle's, two blades, straight and rectangular	5.50
2693.*	" " " Stout's, bayonet shaped	2.00
2694.*	" " " Curtis', straight	1.40
2695.*	" " " McAniff's, reversible, two blades, improved	2.50
2696.*	" " " Rasp, Feneberg's, blunt and sharp, three sizes	each 1.50

All instruments illustrated are designated by 4 *

Nasal Instruments.

SPHENOID AND ETHMOID.

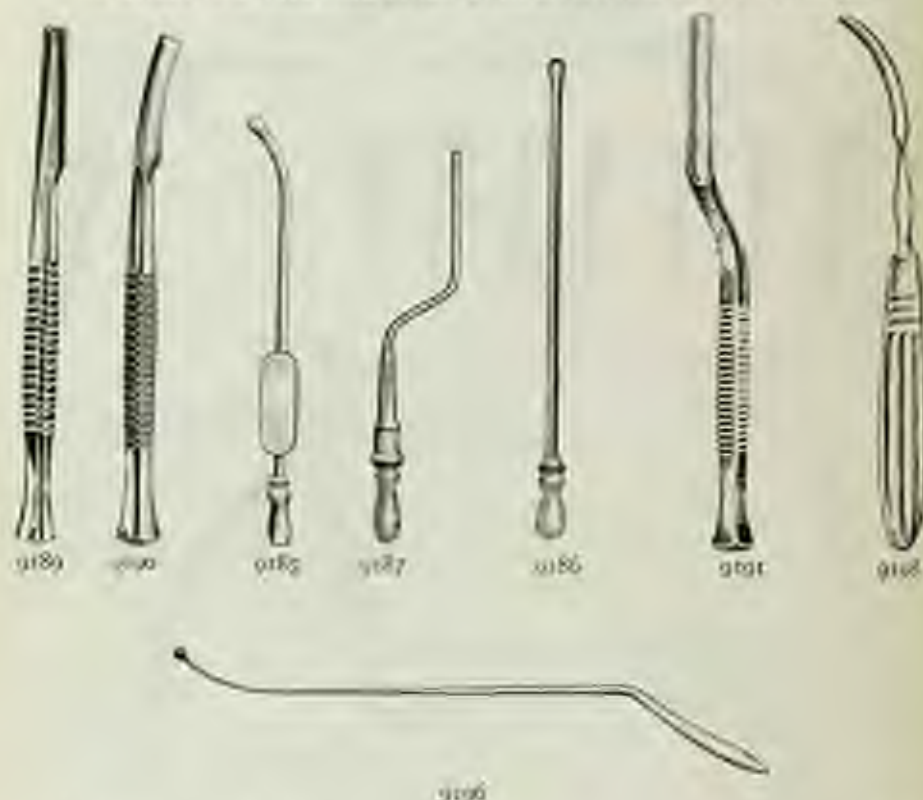


9170.*	Sphenoid Claws, Myles', set of ten instruments, complete	\$22 00
9171.*	" and Ethmoid Punch, Hajek-Schmittknecht's, reversible	10 50
9172.	" Punch, Skillern's, mod. Hajek's	10 00
9173.	" " Hurd's, adjustable to right or left (see page 223)	8 50
9174.	" Gouge, Bagley's	5 00
9175.	Sphenoidal Evulsor, Skillern's	4 00
9176.*	Sphenoid Probe, Andrews', for exploring cavities	40
9177.*	" Casula, " " treating " "	1 25
9178.	" Knives, " "	2 25
9179.	" Probe, Hoener's	1 75
9180.	Ethmoid Clipper, Myles'	7 00
9181.	" " Roe's	6 50
9182.	" " Dench's	6 50
9183.	" Gouge and Curette, Bryan's, double end	2 25

All instruments illustrated are designated by a *

Nasal Instruments.*

ANTRUM AND FRONTAL SINUS CANULAS, PROBES AND CHISELS.



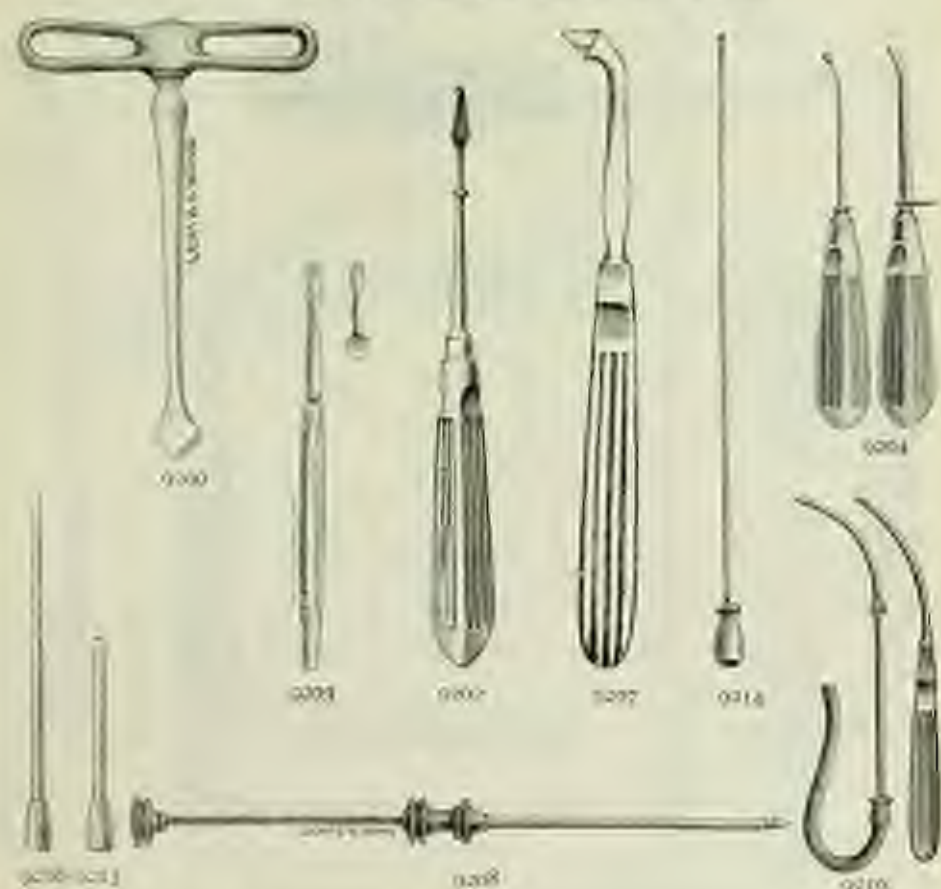
9185.*	Antrum Canula, Eiken's	\$1.00
9186.*	" " Killian's	.75
9187.*	" " Moritz Schmidt's	1.25
9189.*	Frontal Sinus Chisel, Killian's, V shaped, two sizes	each 1.25
9190.*	" " Killian-Reinhardt's, V shaped, curved	1.25
9191.*	" " Killian's, bayonet shape	1.50
9192.*	" " Cavella, Myden's, silver, flexible	1.00
9193.*	" " Skillern's, silver, with tubing connection	1.25
9194.*	" " Killian's, silver, flexible	1.00
9195.*	" " Probe	1.00
9196.*	" " Killian's, silver, flexible	1.25
9197.*	" " Skillern's, silver, flexible	.75
9198.*	Nasal Chisel Guard, Killian's	1.25
9199.	Antrum Probe, Killian's, plated, right and left	each .75

*All instruments illustrated are designated by a *.*

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Nasal Instruments.

ANTRUM DRILLS, TROCARS AND WASH TUBES.

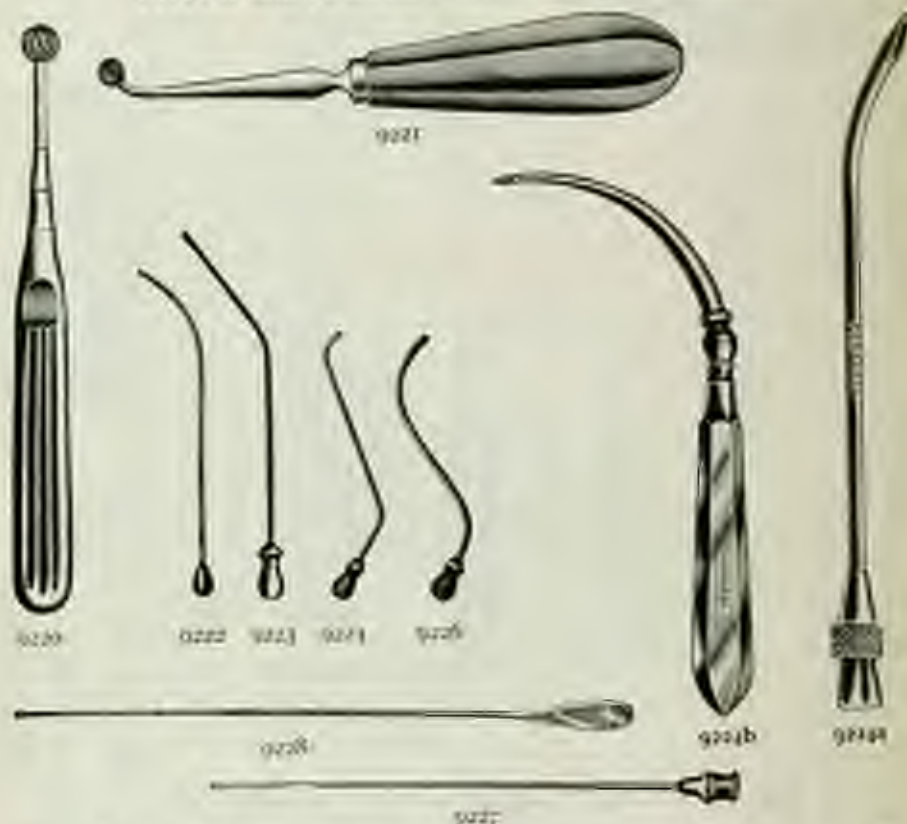


9200.*	Antrum Drill, Freeman's	.....	St. 25
9201.*	" " Hammer's, three sizes	each	1.50
9202.*	" " Pope's, containing pin removable for cleaning	.....	2.30
9203.*	Trocar, Van Halle's, with obturator	.....	1.00
9205.	" " Jos. S. Gibb's, modif. Jurek's	.....	2.50
9206.	" " Douglass'	.....	1.50
9207.*	" " Mikulicz's	.....	1.25
9208.*	" " Freeman's	.....	1.25
9210.*	" " Myles', with wash tube	.....	2.00
9212.	" " Improved	.....	2.50
9214.*	Wash Tube, Myles', flexible, silver	.....	1.00
9215.*	" " Freeman's, silver	.....	1.25
9216.*	Drainage Tube, Freeman's, silver, three lengths	each	1.00
9218.	" " Berworth's, silver, three sizes	.....	1.00

*All instruments illustrated are designated by a **

Nasal Instruments.

ANTRUM AND FRONTAL SINUS BURRS AND CANULAS.



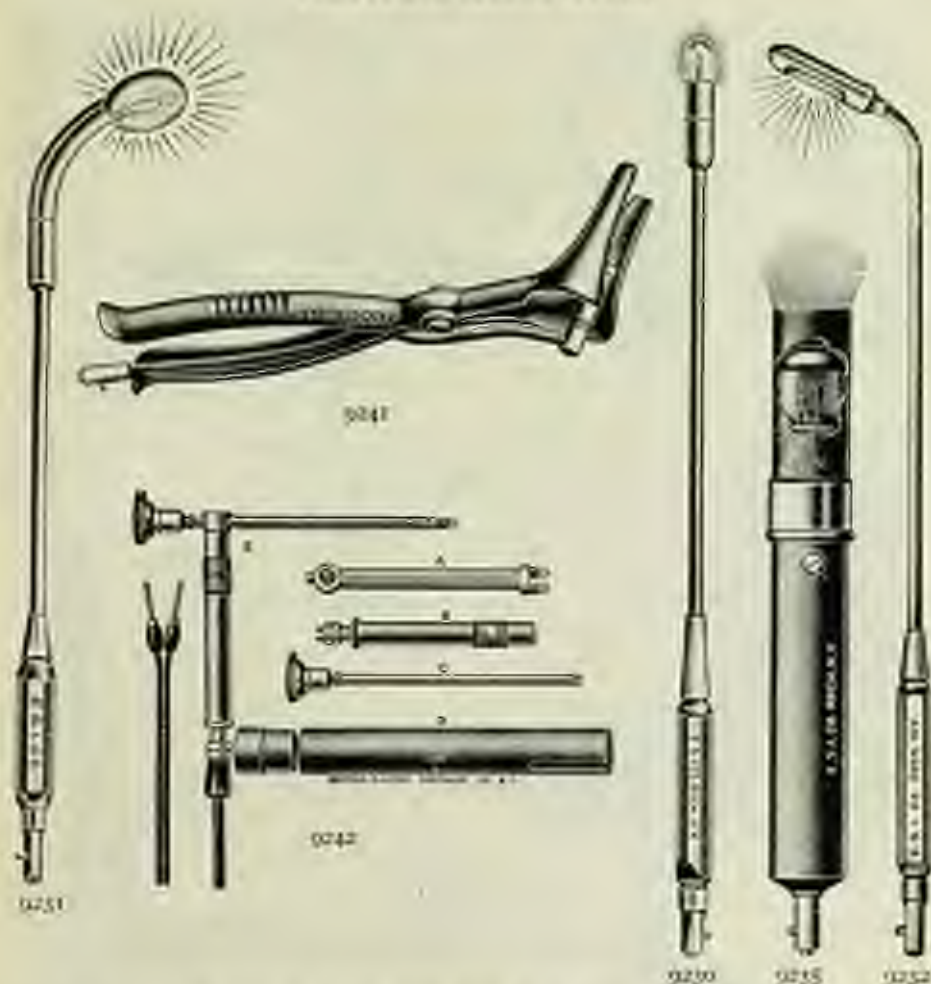
9220.	Antrum	Punch, Ostrom's	\$7 34
9220.*	"	Burr, Ballenger's, two sizes	each 5 00
9221.*	"	" Tilly's, curved shank	3 00
9222.*	"	Canula, Beuges's, silver, flexible	75
9223.*	"	" Fraenkel's, " "	80
9224.*	"	" Hartmann's, " "	80
9226.*	"	Geo. L. Richards', steel canula with large bulb to use mallet; taking of a syringe with lateral tip can be attached for washing out	1 00
9226b.*	"	Trocar and Canula, J. Leslie Davis', similar to Myles'; very fine at the point and gradually enlarges; the opening can thus be made as large as desired; the canula is extra long and extends well outside of the nostril, facilitating the attachment of tubing	2 00
9225.	"	Kaiser, Andrews', right and left	each 2 25
9226.*	Frontal Sinus	Canula, Hartmann's, silver, flexible	80
9227.*	"	" Weaver's, " "	1 25
9228.*	"	Probe, " "	1 00
9229.	"	Bone Forceps, Prince's	15 00

All instruments illustrated are designed by G. S.

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Nasal Instruments.

ELECTRICAL ILLUMINATORS.

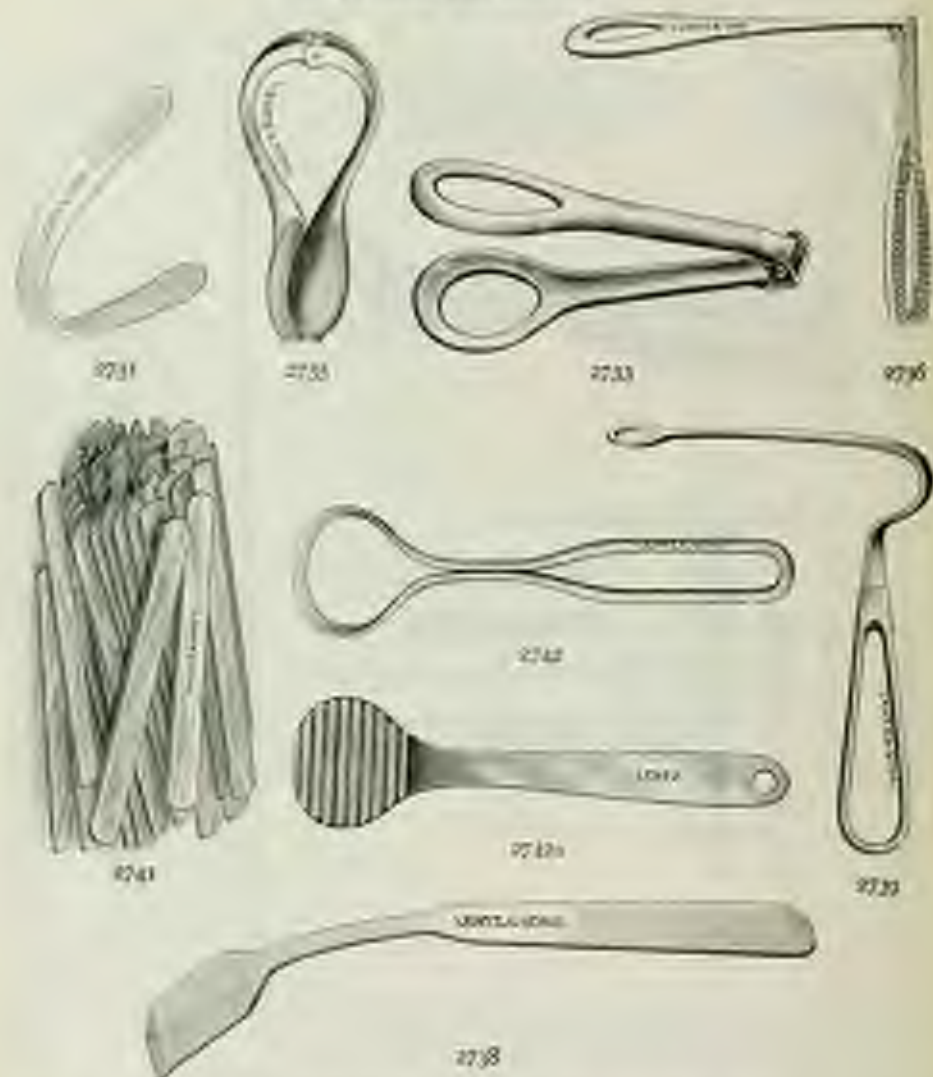


- 9230.* General Diagnostic Lamp, with lens front lamp; length, 19 cm. . . . \$2.50
 9231.* Naso-Pharyngeal " Chevalier Jackson's; length, 19 cm. . . . 4.00
 9232.* Post Nasal Lamp, Kyle's; length 19 cm. . . . 1.50
 9233.* Frontal Sinus Illuminator, with lens front lamp, 19 cm. . . . 1.00
 9237.* " " " Birckitt's, for simultaneous illumination of the frontal sinus on both sides 11.50
 9239.* " " " Freer's; can be operated with alternating or direct current either style 5.00
 9240.* Salpingoscope, Drs. Hirschmann and Valentine's, for illuminating the antrum, Highmore, ethmoid, nasal and pharyngeal cavities; complete with conducting cords and one extra lamp, in metal case 35.00
 Extra Lamps for salpingoscopes, mounted, \$1.50 each.
 9241.* Nasal Speculum, illuminating, braver 4.00
 9242.* Pharyngoscope or Laryngoscope, Hays', illuminating, fitted with two lamps 30.00
 9243.* " " " Schrackert's, illuminating, fitted with one Turgotes lamp, folding handle 25.00

SECTION VI.

Mouth and Throat Instruments.

TONGUE DEPRESSORS.

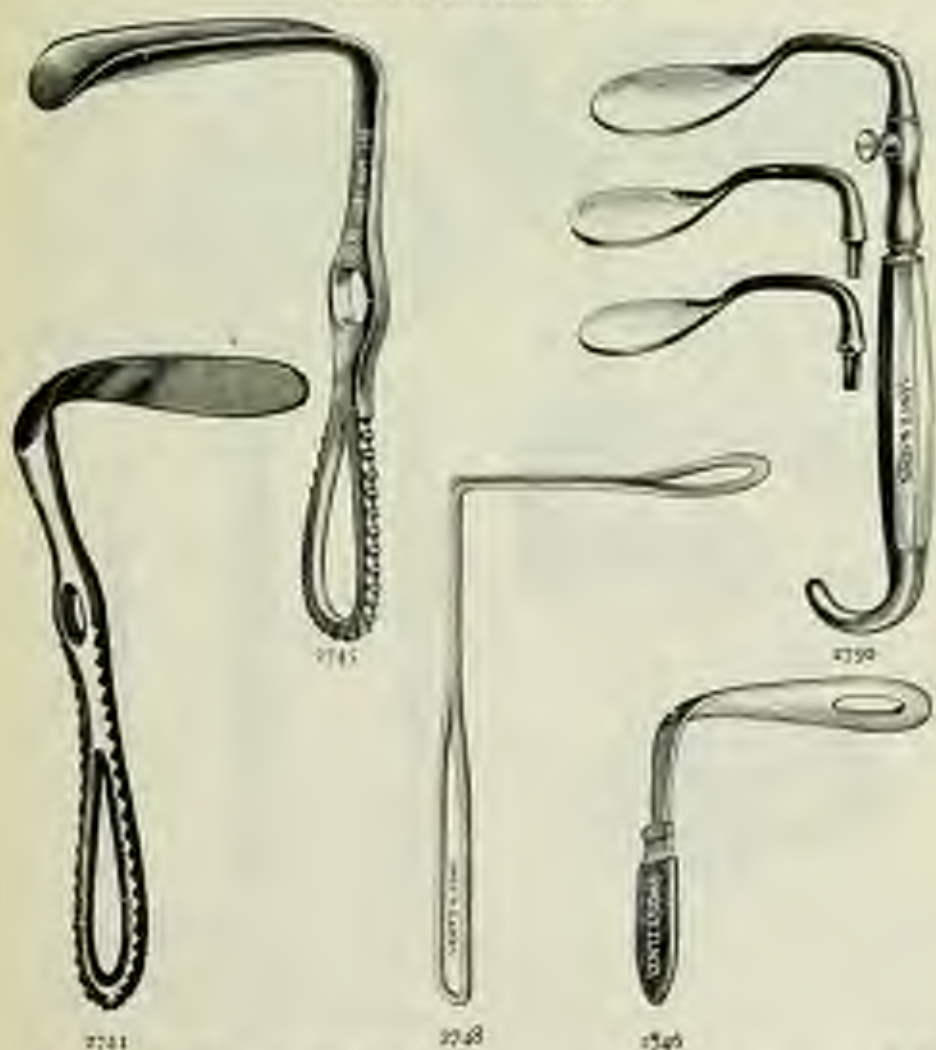


2731.*	Tongue Depressor, folding.	Cohen's, metal, long and short blades	\$1.25
2732.*	"	Saunders', " " " "	35
2733.*	"	double, fenestrated, small, wrought metal	30
2734.*	"	Goodwillie's, small and large concave blades	65
2735.*	"	Lester's, large, wrought metal, strong and light	60
2736.*	"	Lansburgh's, made of non-corrosive silver metal	75
2737.*	"	Kyle's, steel, very light and strong	1.00
2738.*	"	and Retractor, Bliss', steel, for children	1.00
2739.*	"	Wood Blades, 6 in. long, 1/2 in. wide, per box of 8 dozen	30
2740.*	Scraper,	Lester's, double edge, nickel-plated	30
2741.*	"	Rathenfeld's, steel, nickel-plated	60

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONQUE DEPRESSORS.



2743.	Tongue Depressor, Sassi, hard rubber	\$0.60
2744.*	" " " " metal	1.00
2745.*	" " Sawyer's, concaved blade	1.25
2746.*	" " Bosworth's, steel, strong and light	85
2747.	" " De Vilbiss', plain wire	35
2748.*	" " Bukette's, steel, curved up end	75
2749.	" " Tuerck's, all metal, single blade	1.25
2750.*	" " " " 3 blades, with hollow handle	1.50
2751.	" " double best, strong plate glass, polished edge	60
2752.	" " Stehmann's, self-retaining	1.25
2753.	" " Freeman's mod. Tuerck's, folding, all metal	3.50
2754.	" " " " " " " " like Fig. 2744, all metal, with electric lamp to	10.00

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

REFLECTING MIRRORS, HEADBANDS, ETC.



- | | | |
|-------|--|-------------|
| 2760* | Laryngoscopic Mirror, with metal handle, six sizes | each \$2.25 |
| 2761* | " " without handle, " " | 30 |
| 2762* | " " with metal handle, foldable, six sizes | 66 |
| 2763* | " " without handle, " " | 30 |
| 2764* | " " Handle, metal, with set screw; plain, 25¢; fine | 35 |
| 2764+ | " " " hard rubber or metal, with set screw | 35 |
| 2765 | Reflecting Mirror, with Bowers' headband, 3 in., \$1.90; 3½ in. | 2.80 |
| 2766* | " " with Gleason's headband, 3 in., \$2.25; 3½ in. | 2.80 |
| 2767* | " " with Ivins' headband, 3 in., \$2.50; 3½ in., \$2.75; 4 in. | 3.00 |
| 2772* | " " with Fox's free folding headband, steel; light, strong and compact (see next page); 3 in., \$4.25; 3½ in. | 4.50 |
| 2773 | " " with ball on back for headband, 3 in., \$1.25; 3½ in., \$1.90; 4 in. | 1.85 |
| 2773A | " " with 3½-inch hole, aluminum back; for Frankel's headband, and aluminum protecting cover for safe carrying; very light; 3 in., \$2.50; 3½ in. | 2.75 |
| 2774* | Mirror Protector, aluminum, for 3 and 3½-inch mirror, for safe carrying | 30 |
| 2769* | Pocket Light, "Alcohol," acetylene gas, complete in case | 5.00 |

Mouth and Throat Instruments.

HEADBANDS.



2772.	Headband only,	Bosworth's, metal shield, with elastic band	\$0.75
2775.	"	Gleason's, " " " leather	1.00
2777.	"	Leas', hard rubber shield, with silk band	1.25
9300.*	"	Vienet's pattern, hard rubber; fits like a hat	3.00
9301.*	"	Worrall's modified Fox's, folding	3.00
9302.*	"	" " plain, folding	1.50
9303.*	"	Fox's, not folding, steel	1.75
9304.*	"	"Philadelphia," plain, not folding	1.25
9304.*	"	Frankel's, wire, adjustable	2.00
9305.*	"	Clark's, metal, adjustable	1.75

For Electric Headbands, see Electrical Section.

Mouth and Throat Instruments.

EXAMINING CASES.



2795



2796

2795. Laryngoscopic Set No. 1, contains $3\frac{1}{2}$ inch reflecting mirror, Gleason's headband, three assorted laryngeal mirrors, one metal universal handle, set of three hard rubber ear specula, tongue depressor, in leather lined case \$2.50
- 2796.* Laryngoscopic Set No. 2, contains $3\frac{1}{2}$ inch head mirror, nasal ear headband, one universal handle, three assorted laryngeal mirrors, tongue depressor, curved sponge holder, aluminum or plated applicator, Kraemer's ear and nose speculum, in leather lined case 6.00
- 2797.* Laryngoscopic Set No. 3, Shalcross', contains $3\frac{1}{2}$ inch reflecting mirror, Gleason's (or Levin's) headband, three assorted laryngeal mirrors, two metal universal handles, Levin's nasal speculum, Levin's tongue depressor, set of three Toynton's silver-plated ear specula, one nasal, one post-nasal, and one laryngeal applicator, in leather lined case 6.00
2798. Laryngoscopic Set No. 4, Leitch's, contains $3\frac{1}{2}$ inch reflecting mirror, Gleason's headband, three assorted laryngeal mirrors, two metal universal handles, Levin's tongue depressor, Wilde's angular ear forceps, set of four Gruber's hard rubber ear specula, Goodwillie's nasal speculum, aluminum laryngeal applicator, sponge holder, ear applicator, in leather lined case 8.00

All instruments illustrated are designated by a.*

Mouth and Throat Instruments.

GAS BRACKETS.



2801-a-b



2801b



2801c

2801*	Adjustable Extension Bracket, Allison's, polished copper; can be extended to 78 inches; for gas, with Argand burner	\$8 50
2801a*	" Extension Bracket, Allison's, for electric light	9 50
2801b*	" " " combination, for both gas and electric light	12 00
2801c*	" Gas Bracket, double arm, with set-screw; extreme length, 22 inches; brass or nickel-plated; complete, with Argand burner and chimney	6 75
2802*	" Gas Bracket, triple arm, with large set-screw; extreme length, 27 inches; brass or nickel-plated; complete with Argand burner and chimney	8 50

* All instruments illustrated are designed by A. S.

Mouth and Throat Instruments. LARYNGOSCOPES AND GAS BRACKETS.



2700.	Light Condenser, improved, nickel-plated, with mirror rod and 3 1/2 inch mirror.	\$7.45
2701.	" " improved nickel-plated with mirror rod, but without mirror.	6.00
2702.*	" " improved, nickel-plated, without mirror and no mirror.	1.00
2703.	" " improved, nickel-plated, large, for Welsbach light.	1.30
2704.*	Adjustable Gas Bracket, with set-nut, nickel-plated; extreme length, 30 inches.	7.50
2705.	" " same as Figure 2704, but having third arm, making the extreme length 40 inches.	8.75
2706.*	" " brass, plated, well fitting joints; does not require a set-nut.	5.00
2800.*	Combination Gas and Electric Light Bracket, nickel-plated, extreme length 30 inches, with set-nut; Argand burner and fitting for electric light.	8.50
2801.	Extension Bracket, Allison's, oxidized copper; can be extended to 38 inches; for gas, with Argand burner.	8.50
2802.	Extension Bracket, Allison's, for electric light.	9.50

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

ADJUSTABLE STANDS, LAMPS AND CONDENSERS.

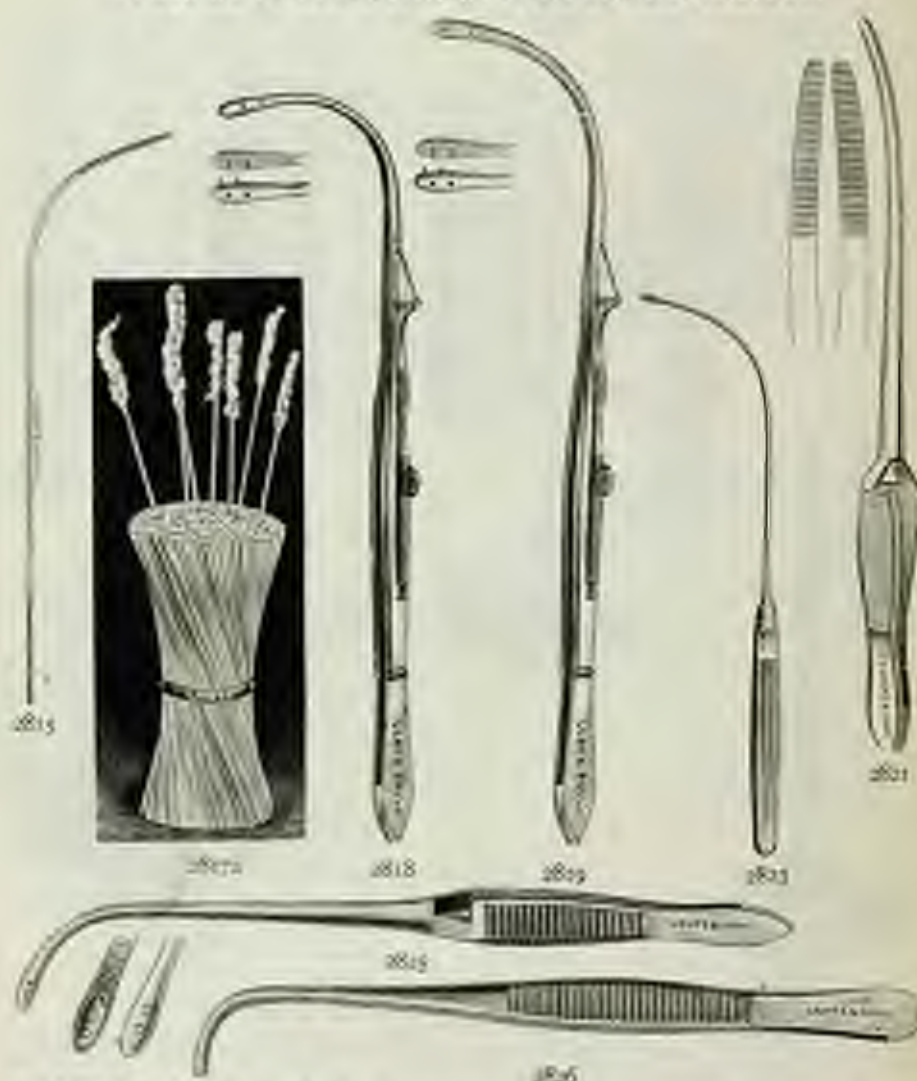


- | | | |
|---------|---|--------|
| 2802.* | Adjustable Stand for electric light, nickel-plated, adjustable from 12 to 38 inches; with Edison electric light socket | \$1.75 |
| 2803.* | Adjustable Stand for electric light, nickel-plated, adjustable from 27 to 48 inches; with Edison electric light socket | 5.50 |
| 2804.* | Adjustable Stand for gas light, nickel-plated; adjustable from 12 to 38 inches; with Argand burner, chimney and 6 feet tubing | 5.00 |
| 2804a.* | Adjustable Stand for gas light, nickel-plated; adjustable from 27 to 45 inches; with Argand burner, chimney and 6 feet tubing | 7.00 |
| 2805.* | Student Lamp, nickel-plated, with glass oil reservoir | 7.00 |
| 2806.* | " " with adjustable wall bracket, nickel-plated, with glass oil reservoir | 8.75 |
| 2807.* | " " with adjustable wall bracket, nickel-plated, with metal oil reservoir | 6.25 |
| 2808.* | Adjustable Wall Bracket, only, for student lamp | 2.00 |
| 2813. | gas | 6.00 |
| 2814.* | Light Condenser, extra large size, improved pattern, for use with 30 c. p. incandescence lamp | 5.00 |

All instruments illustrated are designated by a *

Mouth and Throat Instruments.

LARYNGEAL APPLICATORS, COTTON HOLDING FORCEPS.

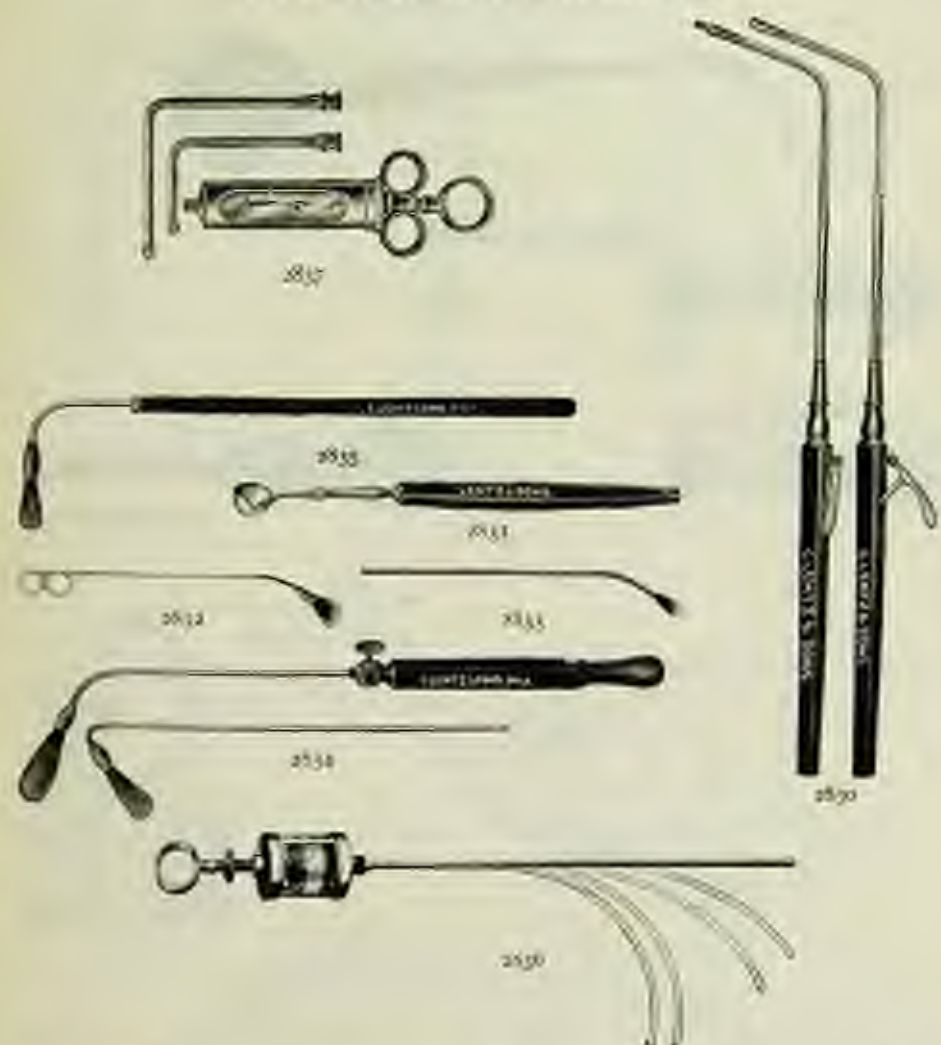


2815*	Cotton Applicator, stainless steel	each, set; dozen	\$1.75
2816	" " " " " " " "	" " " "	25
2817	" " " " " " " "	" " " "	14
2817a*	" " " " " " " "	" " " "	37
2818*	Cotton Holding Forceps, Salmons', universal handle	" " " "	1.00
2819*	" " " " " " " "	" " " "	5.00
2820*	" " " " " " " "	" " " "	3.00
2821*	" " " " " " " "	" " " "	2.75
2822*	" " " " " " " "	" " " "	5.25
2823*	" " " " " " " "	" " " "	2.50
2824*	" " " " " " " "	" " " "	2.75
2825*	Laryngeal Probe, Yeholt's	" " " "	40
2826*	" " " " " " " "	" " " "	60
2827	Electrode, Mackenzie's improved, for paralysis of the vocal cords	" " " "	3.00
2828	" " " " " " " "	" " " "	3.00

All instruments illustrated are designated by a *

Mouth and Throat Instruments.

ACID APPLICATORS, THROAT BRUSHES.

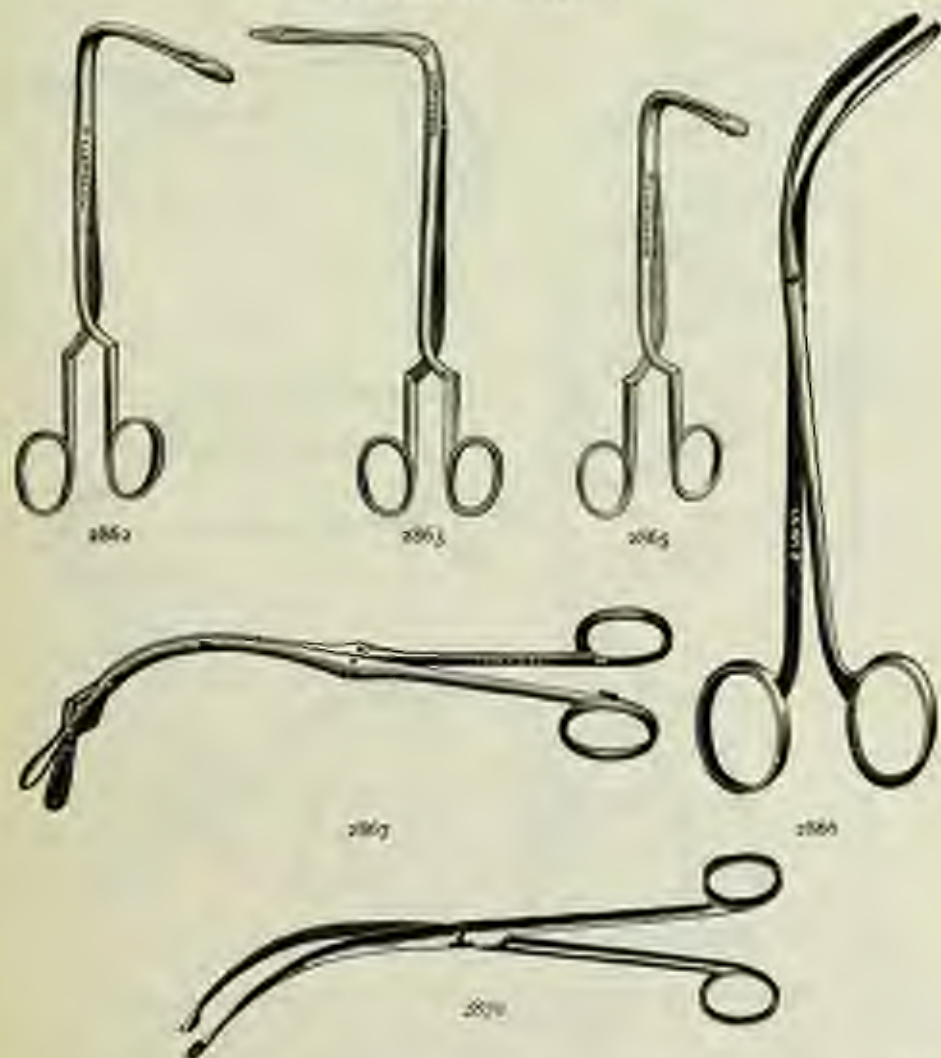


2537.*	Acid Applicators, Gleitsman's, set of six with set-screw handle	\$ 1.25
2539.	Pyrie's " " "	1.50
2530.*	MacCoy's, flexible, silver tipped, lever instrument	4.50
2531.*	Platinum Cup for melting nitrate of silver	\$2.00 50
2532.*	Throat Brushes, camel's hair, plain wire handles	10c, each; per doz. 80
2533.*	" " " " wood handles	10c, " " 80
2534.*	" " " " Wagner's, with set-screw handle, 2 stems and 12 brushes	2.50
2535.*	" " " " Mackenzie's, with fixed handle and 6 brushes	1.00
2536.*	Tracheal Syringe, Muir's, with flexible tube	1.75
2537.*	" " " " Donnell's, flexible, two tips	4.50

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

LARYNGEAL FORCEPS.

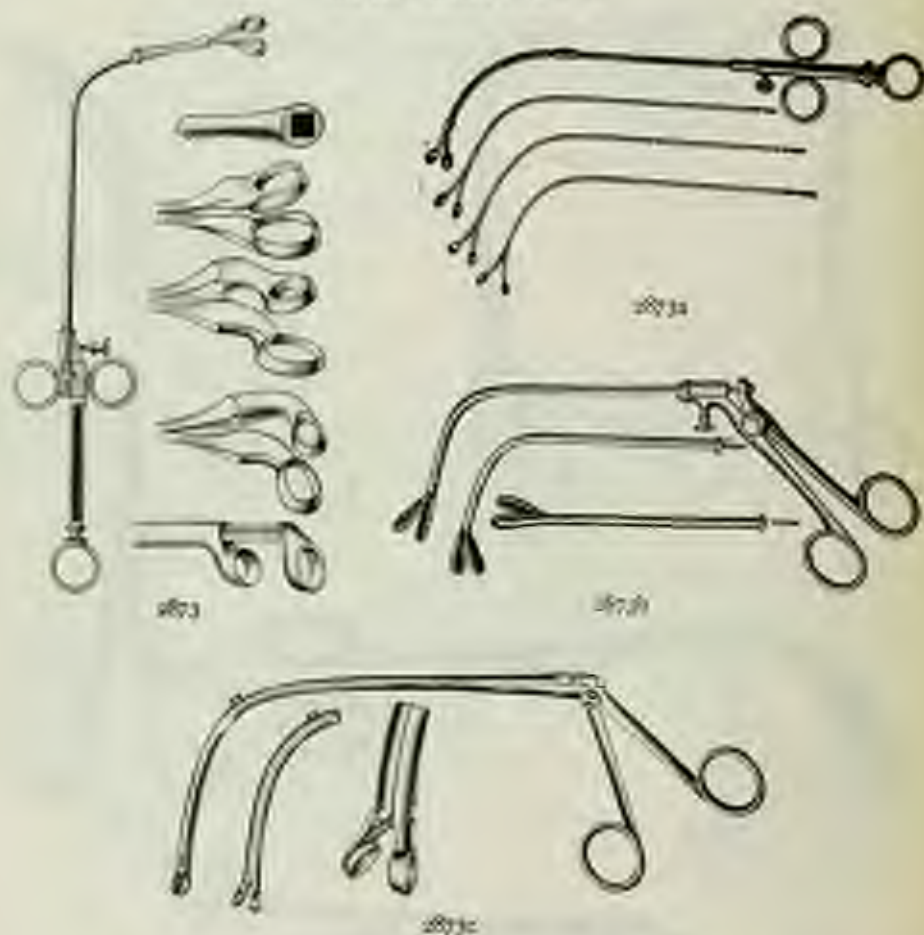


2852*	Throat Forceps, Mackenzie's, opening laterally, serrated jaws	\$2.50
2853*	" " " " antero-posteriorly, serrated jaws	" 50
2854	" " " " cutting edge jaws	1.00
2855*	" " " " laterally, cutting edge jaws	1.00
2856*	" " " " "	1.00
2857*	" " " " "	6.00
2858*	" " " " "	6.00
2859	" " " " "	5.00
2860	" " " " "	2.00
2870*	" " " " "	4.50
2871	" " " " "	6.50
2872	" " " " "	

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

LARYNGEAL FORCEPS.



2873.*	Laryngeal Forceps, Heryng's, modification of Krause's double curettes, adjustable in any direction, complete, in case . . .	\$25.00
2873a.*	" " Moritz Schenck's, sharp spoon, for removal of singer nodules; set of four . . .	12.00
2873b.*	" " Gettslein's, universal grasping, set of four . . .	18.00
2873c.*	" " Killian's, lateral or antero-posterior . . . each	7.50
2873d	" " Krause's, set containing twelve assorted instruments; complete, in metal case . . .	40.00

*All instruments illustrated are designated by a **

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Mouth and Throat Instruments.**LINGUAL TONSIL INSTRUMENTS.**

2887c



2886



2887



2887a



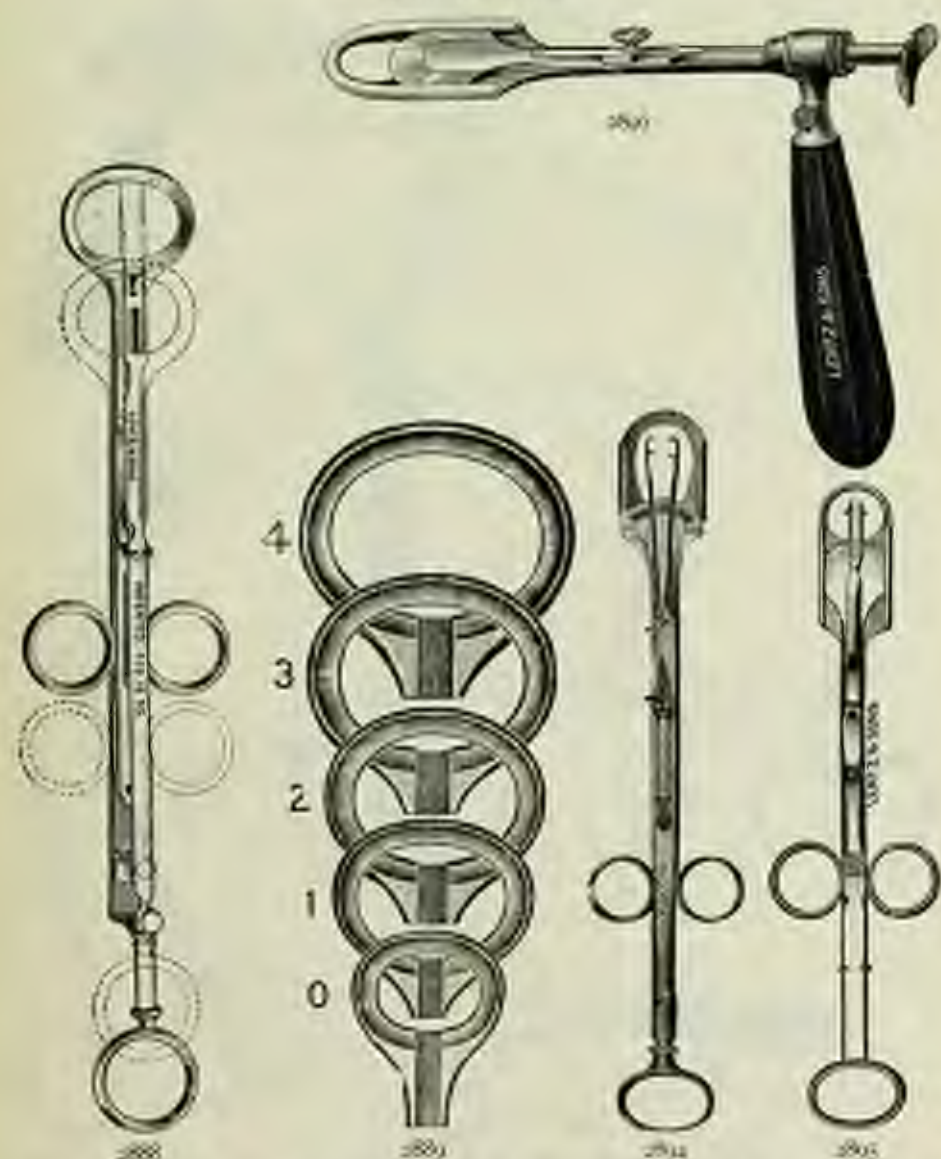
2887b

2884	Uvular Tonsillotomy, Turpin's, set of three blades in universal handle,	
	in case	\$15.00
2885	" Tonsil Scissors, Kirkpatrick's	4.00
2886*	" " Pasch, Schneider's	12.00
2886a	" " " Crotti's	10.50
2887*	" " Garrett, Winkler's	1.75
2887a*	Tonsil Syringe, Eyrich's, in case	5.00
2887b+	" " Kyle-Dwyer's	1.00
2887c+	" " Street's, three needles in case	3.90

All instruments illustrated are designed by us.

Mouth and Throat Instruments.

TONSILOTOMES.



2688.*	Tombstone, Mathieu's improved, is only three pieces, sizes 3 to 4	each	\$4.00
2689.*	" Mathieu-Ermold's, sizes 3 to 4	"	3.50
2690.	Leamon Brown's, triangle pointed blade, four sizes	"	8.00
2691.	" " " " four sizes with one handle	"	22.00
2692.	Mathieu's -serrated, three sizes	each	\$ 25
2694.*	Billings' "	"	6.50
2695.*	Maroon's "	"	8.00
2696.*	Manderille's, adjustable to right or left side	"	8.00

All instruments illustrated are designated by α^+

Mouth and Throat Instruments.

TONSILOTOMES, TONSIL SCISSORS.



2900



2902



2905



2901a



2901b



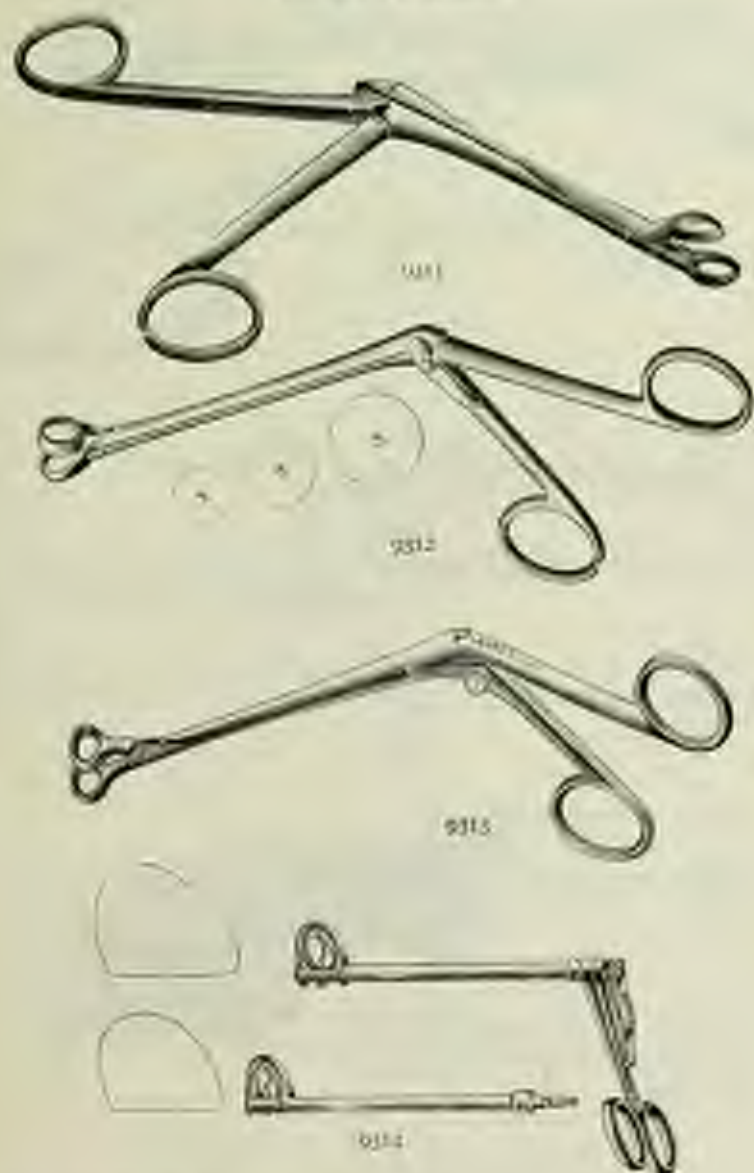
2901c

2900*	Tonsilotome, Mackenzie's, adjustable in right or left side, four sizes.	each	\$6.75
2901.	plain, four sizes		4.75
2902.*	Tonsil Scissors, Kyle's, right and left, serrated edges	"	2.50
2904.*	Bliss'		3.50
2905.*	" " Kling's, full curved, serrated edges		4.00
2901a.*	" " Kirkpatrick's, right and left, serrated edges	each	3.00
2901b.*	" " Robertson's		8.00
2901c.	" " Griffin's		2.75
2909d.	" " curved on flat, serrated edges		2.75

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONSIL PUNCHES



9200.	Total Punch	Myles', round point, straight	\$8.50
9210.	" "	" " right and left	each \$.50
9211.*	" "	" hawk bill, original	. . . . 8.00
9212.*	" "	Harnesman's, round, three slices	each 6.50
9213.*	" "	" " test	. . . . 8.00
9214.*	" "	Roberts' improved, overrifle, two slots	each 9.00

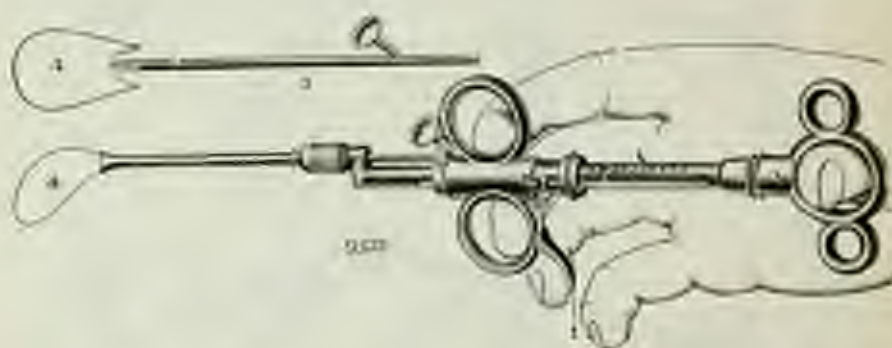
All instruments Westgard are designed by a *

Mouth and Throat Instruments.

TONSIL PUNCHES AND SNARES.



9118



9122



9122

9315	Tonsil Punch,	Ross's	\$7.50
9316	"	Farlow's	8.00
9317	"	Rhodes'	6.00
9318 *	"	Freeman's, right and left	each 7.50
9320	Snare,	Farlow's	10.00
9321 *	"	Farlow-Dottcher's	10.00
9322 *	"	Duffee's, pistol grip	4.00
9323	"	Kratzmaier's, with one straight caudal and medium Vedder tip	10.00
9324	"	Caule, extra Vedder tip, three sizes	each 1.50

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

TONSIL SNARES.



9325



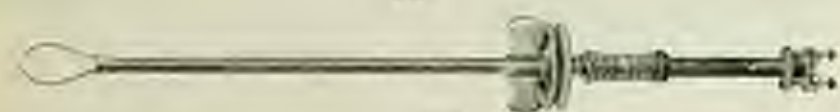
9326



9327



9328



9329



9330

9325.	Tonsil Snare,	Bowditch's modified, extra strong	\$8 00
9326.	"	Fyncheon's	8 00
9327.	"	Sloan's	4 50
9328.	"	Margaret F. Butler's	12 00
9329.	"	Pierce-Mueller's	10 00
9330.	"	S. MacCord Smith's, medium and heavy	each 4 00
9331.	"	Watson's, all steel, light and strong	3 00
9332.	"	Martin's	10 00
9333.	Forceps for cutting and sloping wires for snare		2 00

All instruments illustrated are designated by a %.

Mouth and Throat Instruments.

TONSIL HEMOSTATS.



9340



9343



9342



9335



9344

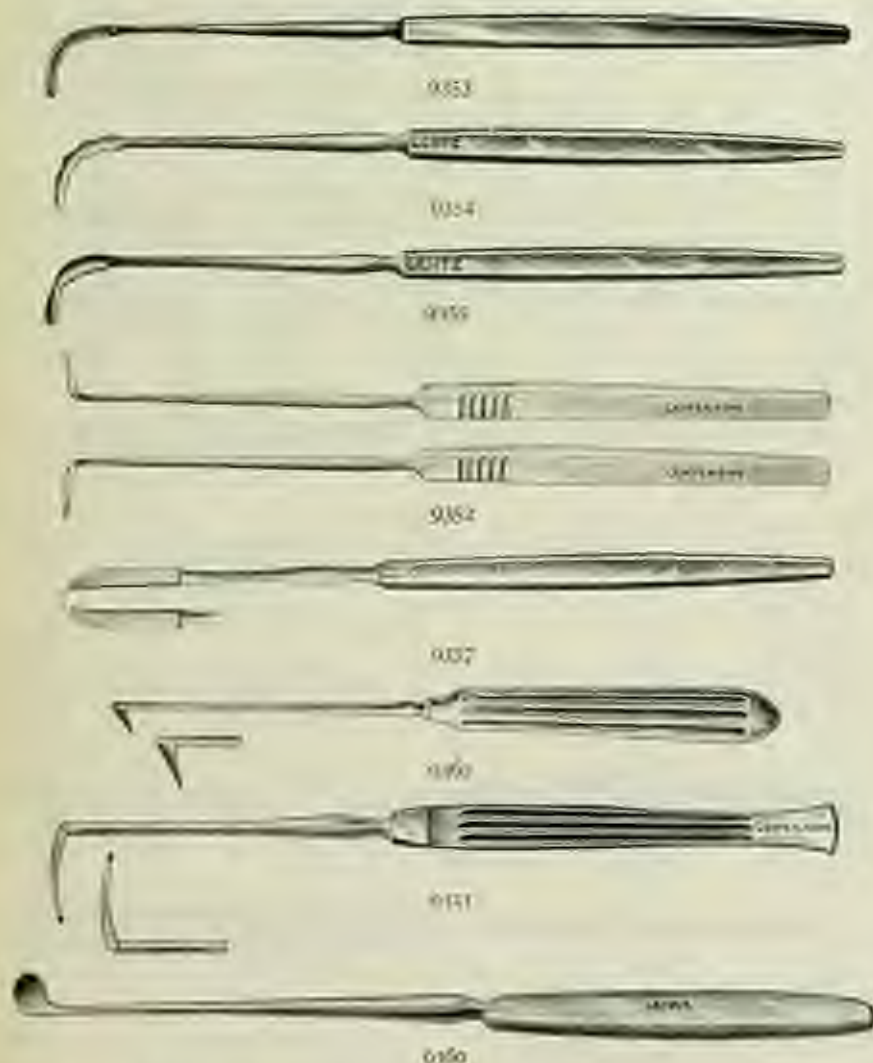


9339*	Tonsil Hemostat,	Goodwille's	\$2.25
9340*	"	Minkler-Stark's	6.50
9341	"	" for either side	7.25
9342*	"	Boettcher's	2.50
9343*	"	Psychon's	6.50
9344	"	Jackon's	2.50
9345	"	Pierce's, reversible	9.00

*All instruments illustrated and designated by a **

Mouth and Throat Instruments.

TONSIL KNIVES.



9353.	Tonsil	Dissecting, Green's	\$1.80
9354.*	"	Knife, Leland's, right and left	each 2.00
9355.*	"	" Makin's	1.75
9356.*	"	" Robertson's	2.00
9357.*	"	" Robertson-Alport's, wave edge	2.00
9358.*	"	" Robertson-Swan's	2.00
9359.*	"	" Freer's, right and left	each 2.00
9360.*	"	" Swan's, right angle	1.75
9361.*	"	" Swan-Alport's, right angle	each 1.75
9362.*	"	" Pierce's, curved on flat, two sizes	2.00
		" Tyding's, curved blade, blunt point	2.00
		" Kirkpatrick's	1.25

All instruments illustrated are designated by a *

Mouth and Throat Instruments.

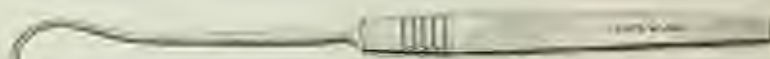
TONSIL KNIVES, CURETTES AND SEPARATORS.



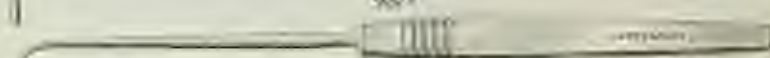
9370



9371



9372



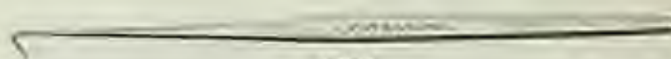
9373



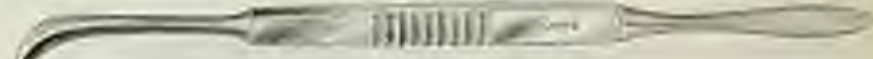
9374



9375



9376



9377



9378

9368.	Tonsil Knife, Watson's, double edge	\$1.50
9369.*	" " Douglas's	1.25
9370.*	" " Myles', right and left	each 1.50
9371.*	" Hook, Makum's	1.00
9372.*	" " Wooten's	1.25
9373.*	" " sharp, for opening crypts	.75
9374.*	" Crypt Curette, Makum's, for removal of foreign substances	1.25
9375.*	" " Meierhof's	1.50
9376.*	" " Abraham's	1.50
9377.*	Tonsil Separator, S. MacCormac Smith's	1.00
9378.*	" " Ingals'	2.50
9379.*	" " Pond's	1.25
9380.*	" " Eckert's, blunt end, cutting edge	1.25
9381.*	" " Peyer's	2.50
9382.*	" " and Hoc, Hurd's (see illustration page 352)	2.00

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

TONSIL KNIVES.



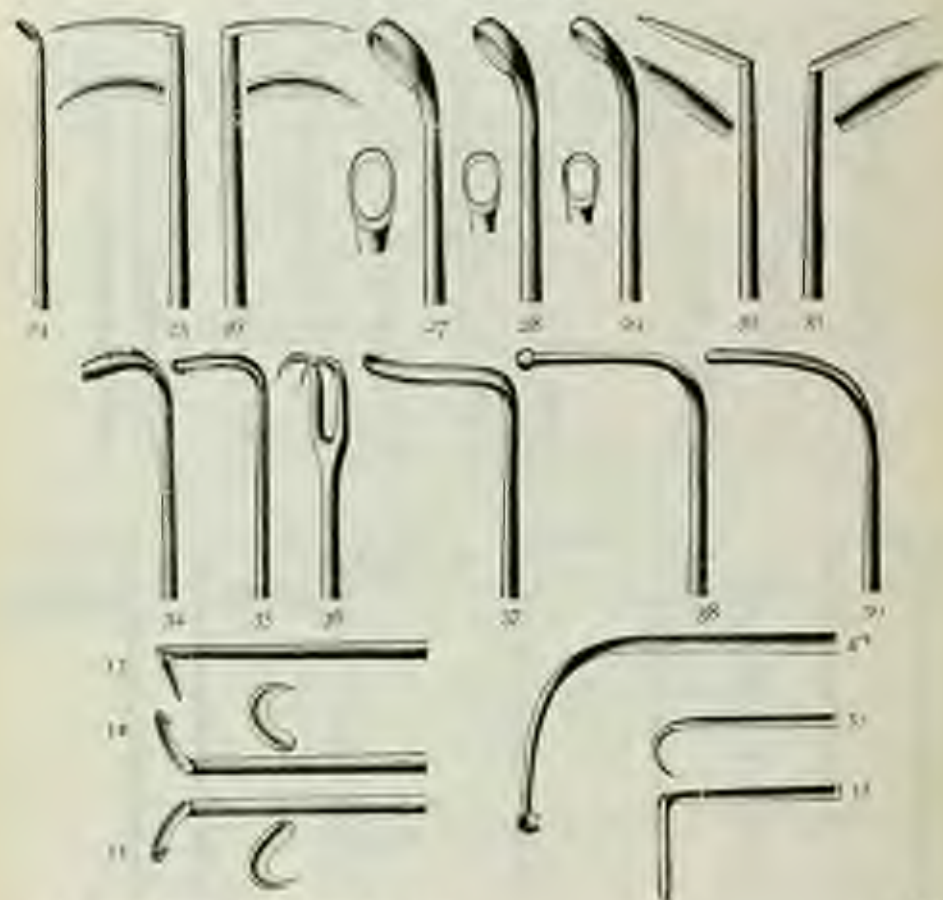
1. ^a	Tonsil Battery, Green's	\$1.25
2. ^a	" " Hobbs' right	1.25
3. ^a	" " " left	1.25
4. ^a	" " Heryng's, blunt point	1.10
5. ^a	" " Abscess Knife, sharp point	1.00
6. ^a	" " Antiseptic, slightly curved	1.00
7. ^a	" " Knife, Tyndal's	1.00
8. ^a	" " Myles', full curved	1.05
9. ^a	" " " " right	1.25
10. ^a	" " " " left	1.25
11. ^a	" " Douglas'	1.25
12. ^a	" " Abraham's, blunt point	1.25
13. ^a	" " " double edged	1.25
14. ^a	" " Pycher's	1.25
15. ^a	" " Walker's	1.40
16. ^a	" " Pierce's, double edged	1.40
17. ^a	" " Lohr's, left	1.25
18. ^a	" " " right	1.25

For handles to hold these instruments see page 289.

All instruments illustrated are designated by a "P"

Mouth and Throat Instruments.

TONSIL KNIVES, CURETTES, ETC.



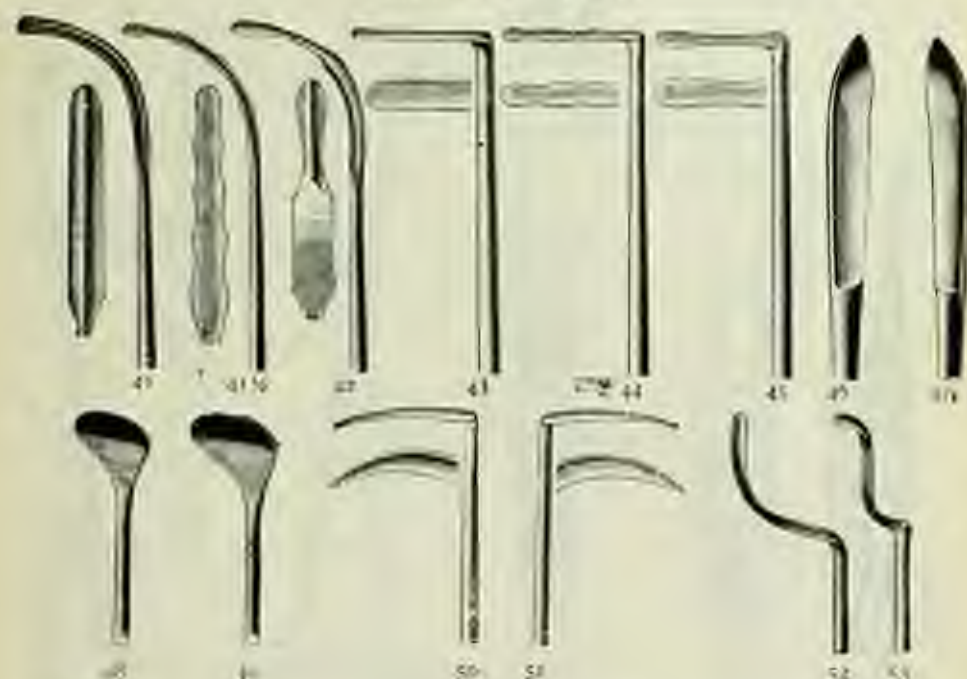
24 ^a	Tonsil Knife, Myles', angular, right	\$1.25
25 ^a	" " " " left	1.25
26 ^a	" " " " " " " "	1.25
27 ^a	" " " " " " " "	1.25
28 ^a	" " " " " " " "	1.25
29 ^a	" " " " " " " "	1.25
30 ^a	" " " " " " " "	1.25
31 ^a	" " " " " " " "	1.25
32 ^a	" " " " " " " "	1.25
33 ^a	" " " " " " " "	1.25
34 ^a	" " " " " " " "	1.25
35 ^a	" " " " " " " "	1.25
36 ^a	" " " " " " " "	1.25
37 ^a	" " " " " " " "	1.25
38 ^a	" " " " " " " "	1.25
39 ^a	" " " " " " " "	1.25
40 ^a	" " " " " " " "	1.25
41 ^a	" " " " " " " "	1.25
42 ^a	" " " " " " " "	1.25

For handles to hold these instruments see page 255b.

All instruments illustrated are designated by a *

Mouth and Throat Instruments.

TONSIL KNIVES, ETC.

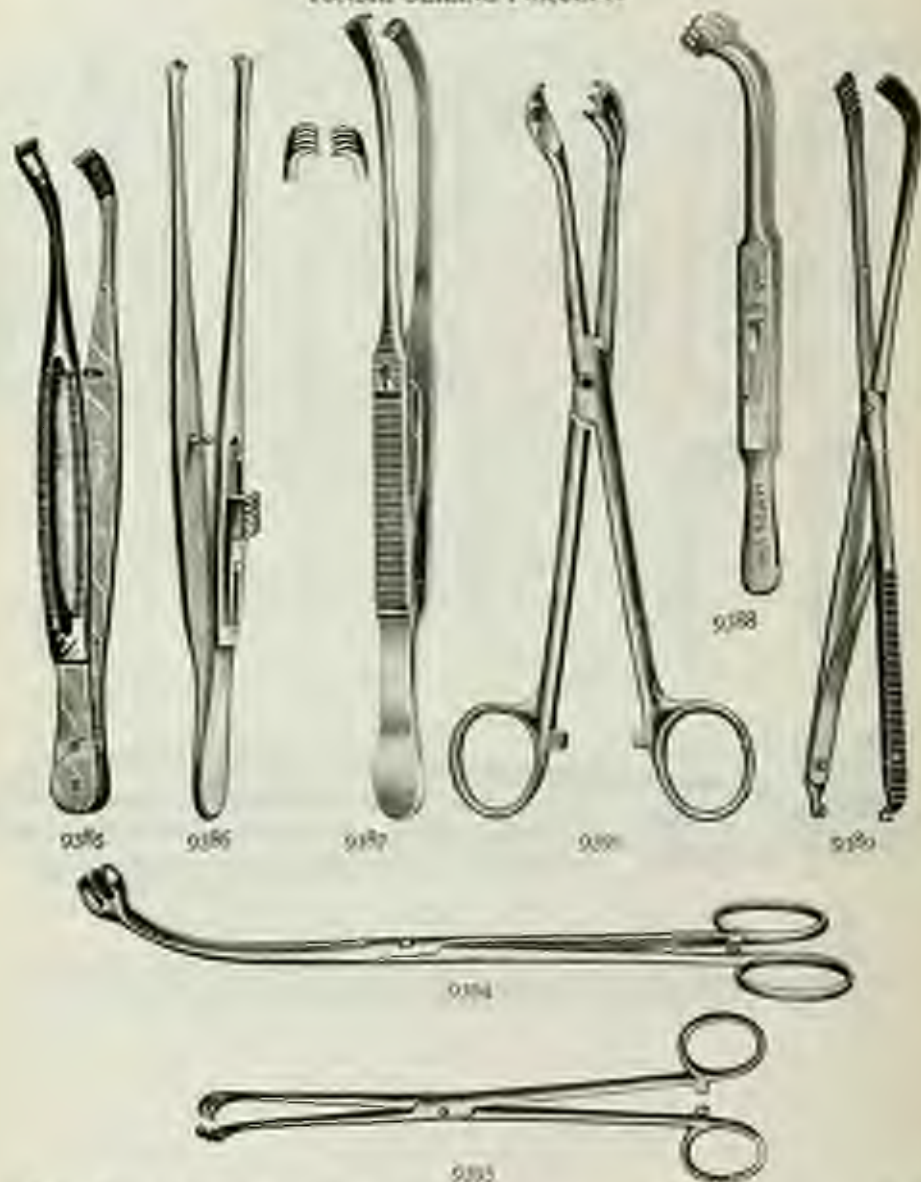


			53	
40.*	Tonsil Knife.	Robertson's		\$1.50
41.*	"	Robertson-Alpert's, wave edge		1.50
42.*	"	Swan's		1.50
43.*	"	Abraham's		1.50
44.*	"	" Alpert's, wave side		1.50
45.*	"	Swan's		1.50
46.*	"	Frer's, right		1.50
47.*	"	" left		1.50
48.*	"	Pierce's, small		1.25
49.*	"	" large		1.25
50.*	"	Leland's, latest pattern, left		1.50
51.*	"	" right		1.50
52.*	"	" bayonet shaped		1.75
53.*	"	Hagen's, double bayonet head		1.75
54.*	Large size	Universal handle with set screw	each	1.25
55.*	Small size	handle with set screw		75
56.	"	plain handle, slip socket, holds securely		35

All instruments illustrated are designed by a.

Mouth and Throat Instruments.

TONSIL SEIZING FORCEPS.



9385*	Tonsil Holding Forceps, Pyndson's	\$2.40
9386*	" " " S. MacQueen Smith's, slide catch	1.75
9387*	" " " Robertson's, spring catch	3.00
9388*	" " " Bayler's	4.75
9389*	" " " Richards'	3.75
9390*	" " " Jergal's	2.50
9391*	" " " Freer Jergal's	2.50
9392*	" " " White's	2.50
9393*	" " " Bellenger's	2.25
9394*	" " " Andrews'	2.25

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

MOUTH GAGS.



2936



2935



2934



2932



2938



2931



2942

2934.*	Mouth Gag.	Deshard's improved, ratchet catch, lead filled tips	\$2 25
2935.*	"	Mason's improved, soft rubber tips	3 50
2936.*	"	Whitehead's, with adjustable tongue depressor	6 50
2937.*	"	" " without	5 00
2938.*	"	" " child size	5 00
2939.*	"	Murdoch's, all steel	2 50
2940.*	"	Scall's modified Murdoch's	3 00
2941.*	"	Pyechon-Ferguson's, flat tips	0 40
2942.*	"	Ferguson's improved (see illustration on page 252)	3 50
2943.*	"	Lee's	2 25
2944.*	"	Wingrave's	2 25
2945.*	"	Doyen's	3 00
2946.*	"	Jansen's modified Doyen's	5 75
2947.*	"	and Tongue Depressor combined, Scall's, with three blades	7 50
2948.*	Lockjaw or Oral Dilator, Gross's, steel		4 50
2949.*	" " Screw, hard rubber		60
2950.*	Finger Protector, Langerbeck's	plain, 75c.; jointed, 1 25	

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.
STAPHYLORRHAPHY AND PLASTIC INSTRUMENTS.



2947	Staphylotony Knife, curved on flat, with long handle, right and left,																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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All instruments illustrated are designed by A. J.

Mouth and Throat Instruments.

STAPHYLORRHAPHY INSTRUMENTS.

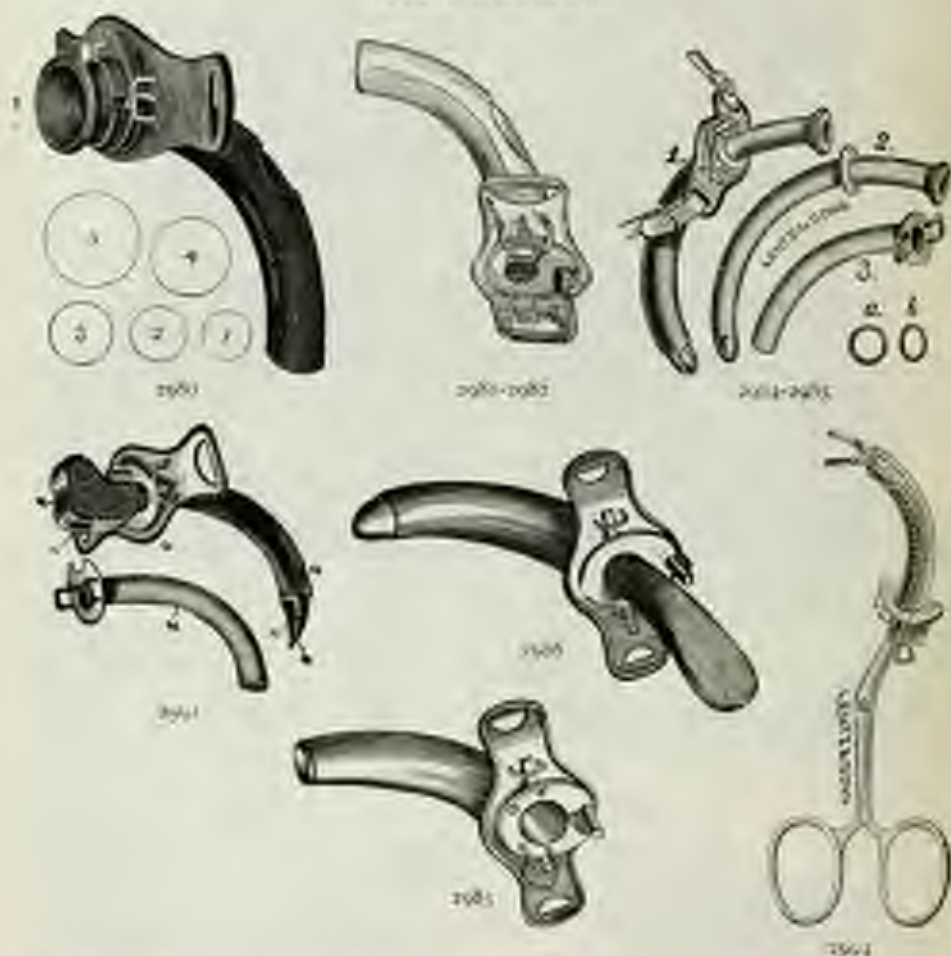


9412.*	Bone Needle, Becby's, right and left	each \$1.00
9413.*	Gum Scissors, " curved, no. 842	each .75
9414.*	Tissue Scarifier, " right and left	each 1.50
9415.*	Periosteal Elevator, Brophy's, custom and wire	each .25
9416.*	" " M. H. Cryer's	1.50
9417.*	Lead Strip, for plates as used by Brophy	00
9418.*	Cleft Palate Clamp, Hammond's, set of three pieces, 3/2 in. each	1.50
9419.*	" " Nipple and Shield	2.00
9420.*	Cheek Retractor, Lane's, metal, right and left	each 4.50
9421.*	" " Brophy's-Lane's, for either side	1.50
9422.*	" " wire, plain	.50

All instruments illustrated are designated by a *

Mouth and Throat Instruments.

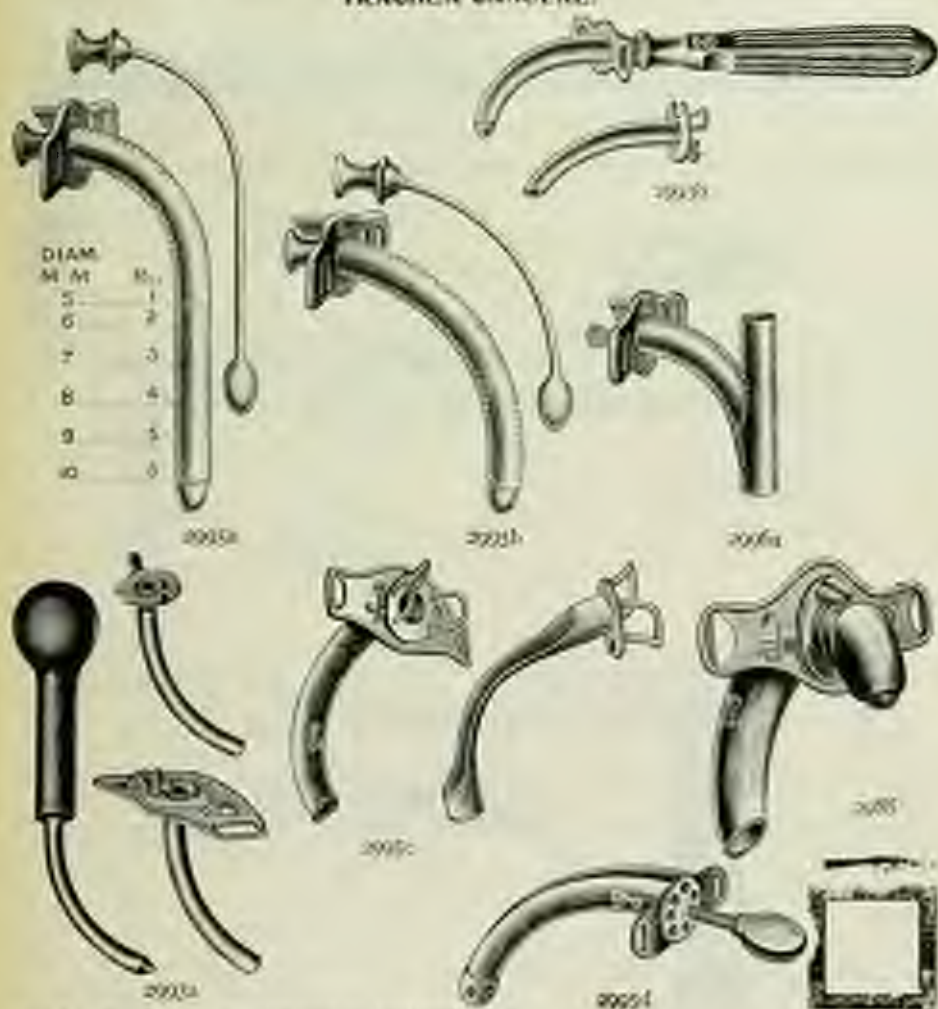
TRACHEA CANULAE.



2980.*	Trachea Tube, Luer's, double, hard rubber, five sizes	each \$0.50
2981.*	" " " " " German silver, plated, five sizes	2.75
2982.*	" " " " " silver, five sizes	\$4.00 to 6.00
2983.*	" " " " " aluminum, five sizes	each 1.75
2984.*	" " " " " Caba's, plated, with hollow obturator	4.00
2985.*	" " " " " silver, " "	6.00
2986.*	" " " " " double, with solid pilot, plated	3.75
2987.*	" " " " " Pilot only, hollow or solid, plated	1.00
2988.*	" " " " " Blisberg's, double, with valve, plated	3.00
2989.*	" " " " " Johnson's, double, with spiral canula and pilot, plated	5.00
2990.*	" " " " " double, German silver, plated, and extra tube with valve, for after-treatment	5.00
2991.*	Tracheostome, Hark's, plated	5.50
2992.*	" " " " " Fith's, plated	7.50
2993.*	" " " " " Langerbeck's, plated	8.50
2994.*	Aluminum Canula (see illustration page 261)	1.25
2995.*	Forceps, Coffey's, for removing blood or mucus from canula	1.00
2996.*	" " " " " Stockert's, for removing mucus from canula	1.00

Mouth and Throat Instruments.

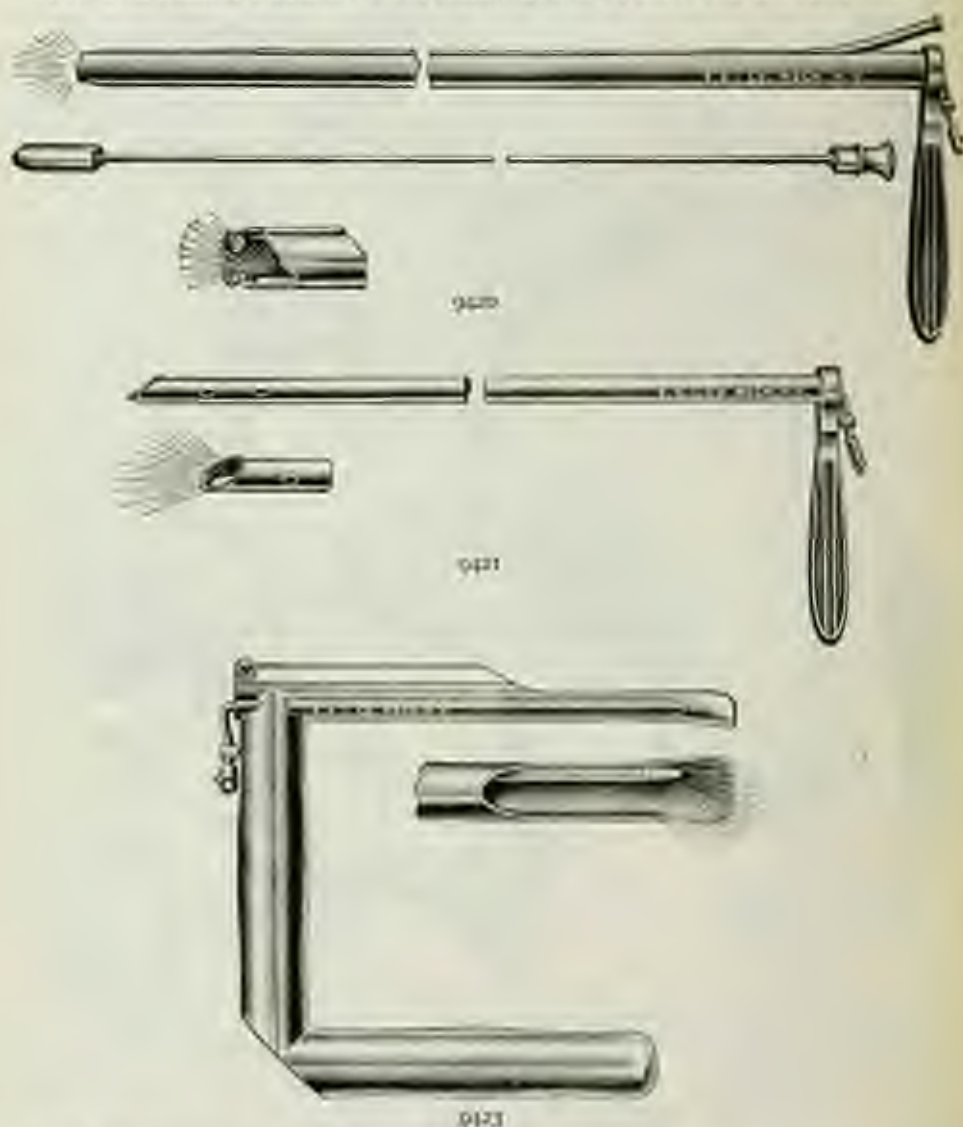
TRACHEA CANULAE.



- 2995.* Trachea Tube, Chevalier Jackson's:
 a.* Canne shape, with pilot; small sizes, 1-2-3, plated, each, \$4.00; silver, each \$5.25.
 Canne shape, with pilot; large sizes, 4-5-6, plated, each, \$4.25; silver, each 6.25.
 b.* Full curve, with pilot; small sizes, 1-2-3, plated, each, \$3.75; silver, each 5.00.
 Full curve, with pilot; large sizes, 4-5-6, plated, each, \$4.00; silver, each 6.00.
- 2995b.* Trachea Tube, Parker's, German silver, plated, each, \$5.25; silver, 5.00.
 2995d.* " Roaswell Park's, German silver, plated, each, \$4.25; silver, 5.90.
- 2996a.* Laryngotomy Tube, C. Jackson's, small sizes, 1-2-3, plated, each, \$3.50; silver, each, \$5.25; large sizes, 4-5-6, plated, each, \$3.75; silver, each 5.50.
- 2996b. Intratracheal Canula, with dilating bulb, Dorrance's, for use in artificial respiration, sizes 15 to 30 Fr. each 1.50.
 Consists of a soft rubber tube 15 inches long, having a dilatable bulb surrounding the tube about 1 1/2 inch from distal end.

Mouth and Throat Instruments.

DR. CHEVALIER JACKSON'S EXAMINING AND OPERATING INSTRUMENTS.

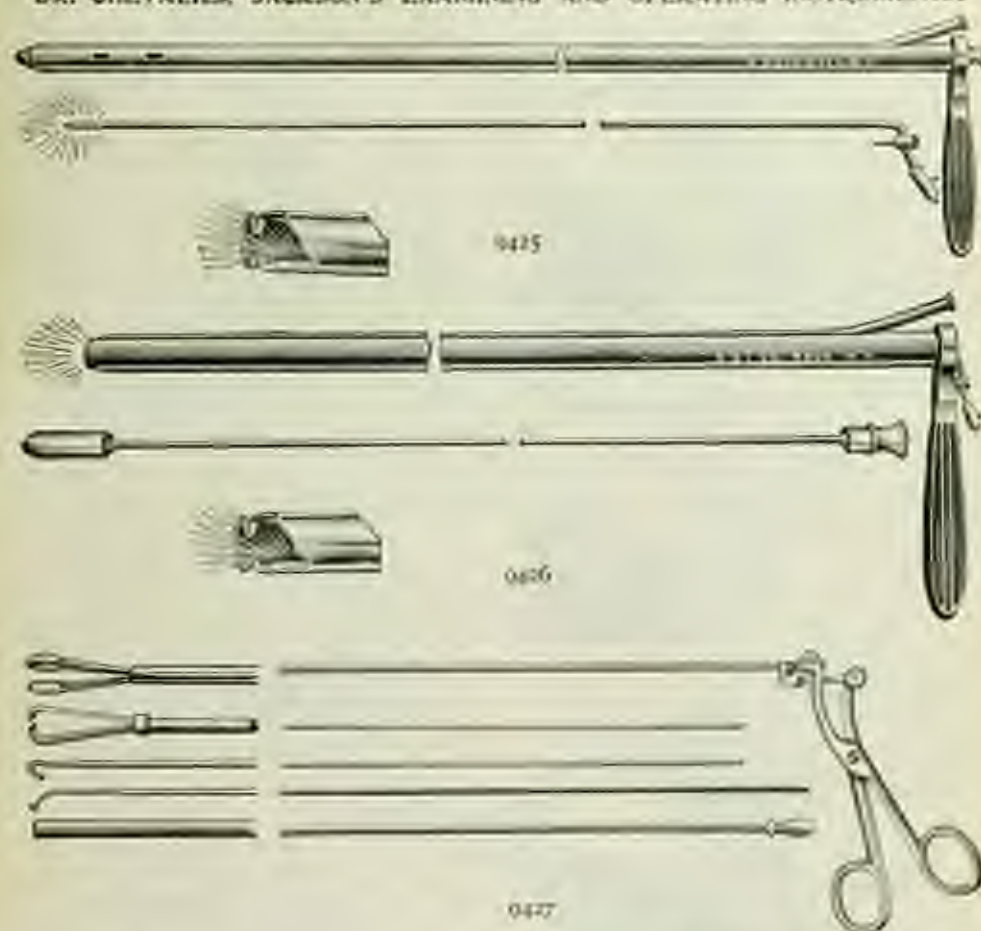


9420*	Esophagoscope, with auxiliary drainage tube;	
	10 mm. diam., 53 cm. long	\$15.00
	7 " " " 45 " " "	11.00
9421*	Bronchoscope, slanted end, without obturator and without auxiliary drainage tube;	
	7 mm. diam., 40 cm. long	11.00
	5 " " " 30 " " "	9.00
9422.	Tracheoscope, without auxiliary drainage tube;	
	7 mm. diam., 25 cm. long	9.00
	5 " " " 14 " " "	6.00
9425*	Separable or Slide Speculum; 12 mm. diam., 17 cm. long	18.00

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

DR. CHEVALIER JACKSON'S EXAMINING AND OPERATING INSTRUMENTS.



- 9425.* Bronchoscope, for cases of excessive secretion; with auxiliary drainage tube:
- | | |
|--|---------|
| 7 mm. diam., 45 cm. long | \$18.00 |
| 5 " " 45 " " | 10.00 |
| 5 " " 30 " " | 9.00 |
| Set of above three sizes, with three extra lamps | 28.00 |
- 9426.* Gastroscope, for all ordinary cases; 10 mm. diam., 70 cm. long. 21.00
 For extreme cases of gastroptosis; 10 mm. diam., 80 cm. long. 24.00
 Set of above two sizes, with two extra lamps. 42.00
- 9427.* Auxiliary Instruments for gastroscopy:
 Forceps, 85 cm., \$7.00; Cotton Carrier, 85 cm., \$1.75; Hook, 85 cm., \$1.25; Probe, 85 cm., \$1.25; Drainage Tube, 85 cm., \$2.00; Scissor Handle, interchangeable, \$5.00; Set-Screw Handle, interchangeable, \$1.00.
 Complete Set. 18.00
9428. Instruments for Demonstrating on Cadaver or Dog; set consisting of Bronchoscope, 9 mm. x 45 cm., without drainage; Esophagoscope, 10 mm. x 55 cm., with drainage; Separable or Slide Speculum; Forceps, 60 cm., with handle; Cotton Carrier, together with one each extra lamp. 50.00

All instruments illustrated are designated by a *.

Mouth and Throat Instruments.

ATOMIZERS.

2027.* Lintz's "Perfect" Atomizers.

No. 1.



No. 2.



No. 3.



2028

These Illustrations represent the ATOMIZERS, which for SIMPLICITY and DURABILITY have no superior. Every one acquainted with the use of the various forms will readily see the advantages possessed by this instrument, as in the majority of Atomizers the Metal Case is exposed to the bottle with content, which is soon acted upon by the solutions used, causing the case to become loose and requiring them for repairing purposes.

In the "PERFECT" ATOMIZER the METAL CASE and TUBE are made in one piece, and nickel plated, the former having a thread cut upon the inside which screws down, securing upon a corresponding thread blown in the neck of the bottle, the whole being made so tight by a soft rubber washer secured on the inside of the cap. The BULBS are round, and have a capacity of three ounces. The TUBES are 1 1/2 inch in diameter, and 10 inches long, made in extra sizes, giving a straight, upward and downward spray. With the wire accompanying each Atomizer the small opening in the end of the TUBE can be easily kept free.

Our Pure Black Glass Bulb is not so easily soiled and possesses much greater durability than the White Bulb usually furnished. It is made with a neck at each end which allows the Stopper and Valve to be removed, cleaned and adjusted, thereby giving a permanent spray.

This well known Standard Atomizer is especially adapted for medicinal treatment of the Throat, and Nasal Passages, for spraying other watery or light oily solutions.

Illustrative Tube, with Bottle, Bulb, water

Washer and Wire, packed in one strong paraffined box:

patients, for 100 physicians \$5.00
per dozen \$50.00

Set of Metal Atomizer (like other) \$10.00
Bulb only \$2.00
Bulb with tubing only \$3.00

2029.* "Magic" atomizer, with hard rubber tube and three screw tips, for spraying water, liquid of every description, bottle has a wide base, to avoid upsetting.

patients, etc. Physicians \$25

2030.* "Magic" Atomizer, same as figure 2029, but with straight tip only.

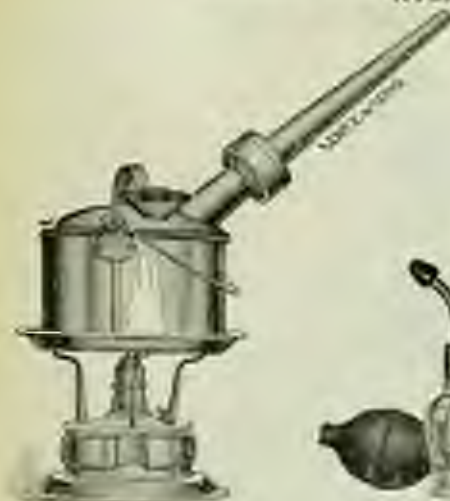
patients, etc. Physicians \$25

Postage for mailing any of the above Atomizers, etc.

Special prices quoted on all Atomizers in quantities of half dozen and more.

Mouth and Throat Instruments.

ATOMIZERS.



3013



3014



3015



3023



3021

3019.	Spray-Bottle Heater, De Villed's, open, six or seven spaces	\$2.00
3020.	" " " closed, " " "	4.00
3021.	" " " nickel-plated water chamber with three spaces for bottles, on cast-iron stand, with alcohol lamp or Bunsen burner. Size, 6 x 7 1/2 in., 7 1/2 in. high	1.50
3022.	" " " with six spaces for bottles and larger space in center for heating instrument; valve at side for drawing hot water; alcohol lamp or Bunsen burner. Size, 6 in. diam., 7 1/2 in. high	5.50
3023.	Holt's Cream Kettle and Medicator, with flame regulating alcohol lamp	4.00
3024.	Melolin's, De Villed's No. 48, with nose and mouth tips and hand bulb	4.00
3025.	" " " "Globe" No. 4, with nose and mouth tips, made and hand bulb	3.00
3026.	" " " "Tapered" No. 7, with nose and mouth tips and hand bulb	2.50
3027.	" " " No. 7, small size, with nose and mouth tips and hand bulb	1.50
3028.	" " " "Globe" C. & S. No. 10, with hand bulb	.50
3029.	Steam Atomizer, nickel-plated, with two glass spray tubes	4.00
3030.	" " " Spray Tube, glass	.20
3031.	" " " Face Shield, glass	.25
3032.	" " " Medicine Cup	.10

All instruments illustrated are designated by a 1.

Mouth and Throat Instruments.

COMPRESSED AIR APPARATUS—ELECTRIC.



The Pelton & Crane Co's Automatic Compressor Unit is a complete unit in itself, as the illustration shows, to be operated on the electric lighting current. The entire apparatus is made of the best material and workmanship to insure service, and is entirely automatic in its action and practically noiseless. Can be set to cut off at any pressure desired. The motor and pump are mounted on the top of a 6-gallon nickel-plated seamless steel tank. Nos. 1 and 10 outfits will furnish 800 cubic inches of air per minute; Nos. 121 and 122 will give 1,600 cubic inches per minute.

No. 1	Electric Compressor for 110 volts	direct current	\$85 00
" 10	" " " " "	alternating current, any cycle	100 00
" 121	" " " " "	direct current	100 00
" 122	" " " " "	alternating current, any cycle	125 00
3 ft. silk covered tubing and cut-off, 124			2 50
Nos. 121 or 122 outfits, if desired without tank, deduct from prices			12 00
A telescopic fiber case can be furnished, if desired for Nos. 1 or 10 outfits,			
black, \$5 00; or white enamel			7 50

For further particulars write for pamphlet.

Audiometer for Testing the Hearing.



The Pilling-McCallie Audiometer \$50.00

This is a simple and practical instrument for testing the acuteness of hearing, and will be found invaluable to the physician in testing scientifically the various degrees of deafness.

It is simple, durable, accurate and easy of operation; it will test the hearing of the most acute ear; can be used in the office or schoolroom, and where there is considerable noise if necessary; will test both ears at once or either ear separately.

It has no batteries or delicate parts to get out of order. Every instrument is standardized by an instrument kept for the purpose.

No. 1.—The operation of this machine is based upon the fundamental fact that constant sounds of a low intensity can be confined in a box, and that when an opening is made in this box the loudness of the sound passing through this opening will increase when the opening increases.

No. 2.—The uses of the instrument consists essentially of a device for making a constant sound within a practically sound-proof box, having an opening that may be varied, and tubes to carry the sound from the opening to the ears. Full descriptive pamphlets will be sent upon application.

*All articles illustrated are designated by a *.*

Mouth and Throat Instruments.

COMPRESSED AIR APPARATUS.



3098



3099

- 3098.* Compressed-Air Outfit, Beck's; containing Nebulizer, Tube and round glass table, with Vibrator, Face-Mask, Nose-Piece, Cutoff and Tubing for Nebula, and Spray-Tube.
 With Double Lever Pump (Fig. 3098) \$80 00
 With T Pump (Fig. 3097) 55 00

We present herewith the latest design of Nebulizer in combination with a Seamless Steel Air-Receiver. This combination forms a most attractive, practical and efficient apparatus. It is an important and desirable addition to any physician's office.

The Spray Tube has been tested thoroughly in actual practice and it has proved to deliver, at a given pressure of air, more than five times the volume of the most perfect vapor than any other vapor tube manufactured.

The Seamless Receiver is finely finished in aluminum bronze with a nickel border painted near the top and bottom. It is 12 inches in diameter and 30 inches high, provided with pressure gauge, inlet and outlet valves, and is thoroughly tested to five hundred pounds of pressure. It is mounted on a gold finished ornamental base which gives the whole apparatus a fine look. The total height is 50 inches.

Between the receiver and the nebulizer a circular table or shelf 30 inches in diameter is supplied, consisting of a highly polished round glass plate with a nickel plated rim.

- 3099.* Nebulizer, Beck's; set of six flasks with Pressure Gauge, Mouth-piece, Face-Mask, Tubing and Cutoff, mounted on Oak Base, without air-receiver or pump \$37 50

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

COMPRESSED-AIR APPARATUS.



3065.* Outfit complete, including 8 feet of silk-covered tubing, automatic cut-off, and set of 3 hand-rubber sizers, with rack. \$22.50

This illustration represents our most popular outfit.

The receiver is 20 by 22 inches; extreme height, 26 inches; provided with an accurate pressure gauge; it is absolutely air-tight, and will stand a maximum pressure of 50 lbs.

Both Receiver and Pump are well made and nickel-plated.



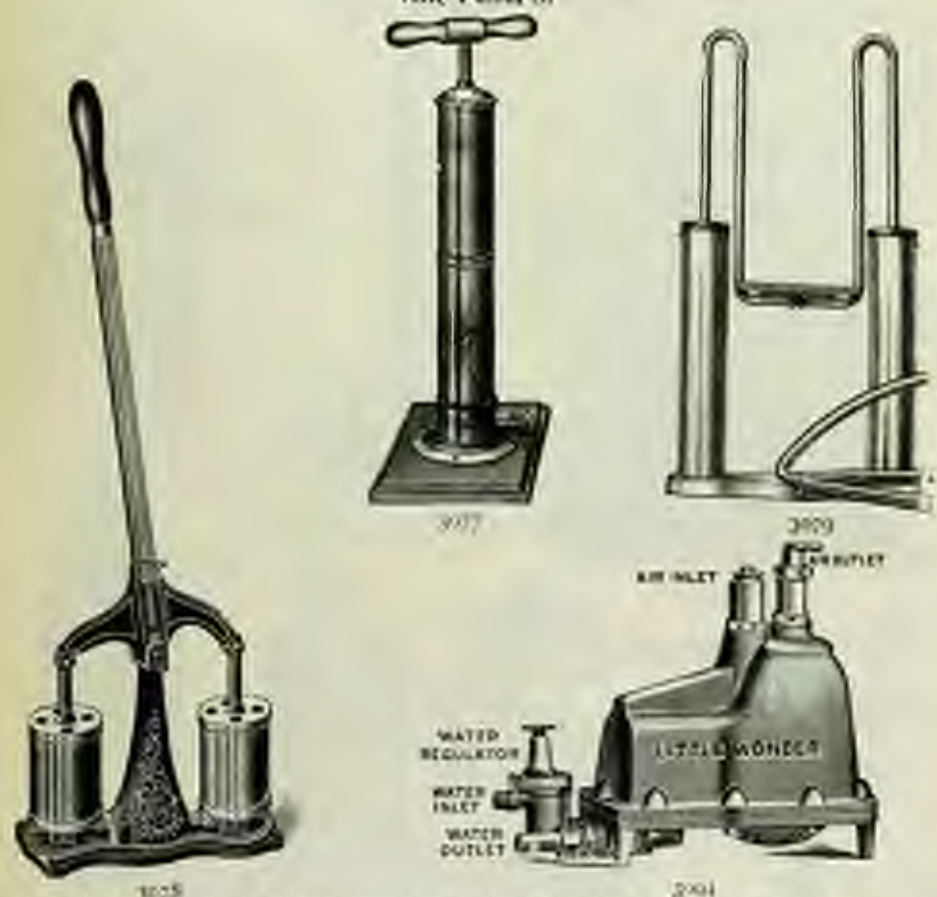
3066.* Outfit complete, with 12 feet of silk-covered tubing, automatic cut-off, and set of 3 hand-rubber sizers. \$25.00

This outfit is practically the same as fig. no. 3065, with the exception of having two outlet valves on receiver and two 5 foot silk-covered tubes, with cut-offs, thus permitting the use of an sizer and a reporter at the same time.

All articles illustrated are designated by a*.

Mouth and Throat Instruments.

AIR PUMPS.



- 3075 T Pump, nickel-plated metal cylinder 16 inches long and 2½ inches in diameter, mounted on walnut base \$4 50
- 3078 Double-Action Lever Pump, stands 49 inches high. It is very powerful and requires but small exertion of strength. The cylinders are nickel-plated, the valves brass. Neatly japanned frame 12 90
- 3079 Foot Pump, portable, small, can be used instead of hand bulb; attachable to any make of aspirator or atomizer 5 00
- 3080 Air Pump, Hydraulic, "The Monitor." Has a large capacity, with a very quick action, and is especially adapted for use in localities having very steady water. It is 12½ inches in height, gives same pressures in air as water pressure used to operate it 27 00
- 3084 "The Little Wonder." Single-acting but powerful in its operation; is constructed entirely of metal, having no leather valves to wear out, therefore making it perfectly reliable and durable. This compressor is intended for low-water pressure 25 00
- 3085 "The Compound Eureka." Very powerful in its operation, giving two pounds of air pressure for every pound of water pressure, and is especially designed for premises not having sufficient water pressure. In brass, \$20 00; nickel-plated 45 00

Mouth and Throat Instruments.

AIR PUMPS, AUTOMATIC CUT-OFFS,



- | | | | |
|--------|--|---|---------|
| 3682.* | Air Pump, | Electric, "Krystone," for direct current | \$50 00 |
| 3683.* | " | " | \$5 00 |
| 3684.* | " | Hydraulic The "I.X.L." is a quick producer of air, giving
the full pressure of the street main in a few
minutes; collects no slime in the compressor;
not affected by muddy or gritty water; only
two rubber washers on inside of compressor;
no spring or delicate valves to get out of order. | \$9 00 |
| 3685.* | " | "
The "Champion" This well-known Air Com-
pressor is designed to compress air for atomiz-
ing purposes. A constant steady air
pressure is maintained. It requires only one-
third the amount of water used by the old
styles of compressors. The "Champion" fur-
nishes one pound of air for every pound of
water-pressure, and works satisfactory where
the water is muddy.
<div style="text-align: right;">In boxes, \$20 per nickel-plated</div> | = 00 |
| 3686.* | Automatic Cut-off, Sash, improved; no valves to get out of order | | 1 25 |
| 3687.* | " | | 1 50 |
| 3688.* | " | | 1 00 |
| 3689.* | Tubing, silk covered, for compressed air apparatus | per foot | |

Mouth and Throat Instruments.

RESPIRATORS AND INHALERS.



3100



3101



3102



3106



3107



3103



3108



3109

3100.*	Respirator, Robinson's, zinc, with sponge. (Creosote Inhaler)	\$0.35
3102.*	Cover's, rubber, for mouth and nose, protecting from dust, poisonous gases and smoke; with automatic valve at side for exhalation. patients, \$2.00; physicians	1.70
3103.*	Cover's, metal, for mouth and nose;	1.25
3104.*	for mouth, silk-covered	1.00
3105.*	Tydale's, hard rubber, for mouth and nose; patients, \$3.00; physicians	2.50
3106.*	Inhaler, Evans', glass, pocket size . . . . .	.45
3107.*	Robinson's, nasal, hard rubber . . . . .	.40
3108.*	Pulmonary Suction Mask, Kuhn's, celluloid, with inflatable rubber rim, three sizes each	5.00
3109.*	Breathing Tube, Fild's, for exercising the breathing muscles, plated	1.00
3110.*	Wigmore's improved; plated . . . . .	.75
3111.*	Anti-Snoring Apparatus, keeps the mouth closed during sleep; two sizes, for adults and children patients, \$1.00; physicians	.75

All Instruments Illustrated are designated by a *.

Mouth and Throat Instruments.

APPARATUS FOR THE THERAPEUTIC ADMINISTRATION OF OXYGEN.



Outfit No. 1.

3112.* Inhalation Apparatus	\$5.00
Cylinder, 40 gallons' capacity	5.00
40 gallons Gas, either pure Oxygen or mixed Oxygen and Nitrous Oxide	2.00
Complete Apparatus, Cylinder, and 40 gallons Gas	\$12.00

Outfit No. 2.

3113.* Inhalation Apparatus	\$5.00
Cylinder, 100 gallons' capacity	15.00
100 gallons Gas, either pure or mixed	5.00
Complete Apparatus, Cylinder, and 100 gallons Gas	\$25.00

3114. Base for cylinders, as shown in cut, extra	75
--	----

When empty cylinders are returned to us, and not ordered to be re-filled, we credit customer with price of cylinder.

When returning cylinders, expressage must be prepaid in all cases.

We are prepared to supply pure Oxygen Gas, or a mixture of Oxygen and Nitrous Oxide in definite proportions respectively of 20 per cent. and 40 per cent. of Nitrous Oxide.

Bither Gas is furnished in cylinders containing 40 or 100 gallons.

Cylinders containing pure Oxygen are painted red; those containing pure Nitrous Oxide Gas are painted black. Cylinders containing twenty per cent. of Nitrous Oxide are painted black one-fifth of their length, the remainder red; those containing forty per cent. of Nitrous Oxide are painted black two-fifths of their length, the remainder red.

*All articles illustrated are designated by a *.*

Mouth and Throat Instruments.

APPARATUS FOR THE THERAPEUTIC ADMINISTRATION OF OXYGEN.



3116



3117

3116.* Oxone Generator: a portable apparatus for the instant production of 100% pure oxygen gas. Complete set of water container, wash bottle, tubing, mouthpiece, together with four cartridges of oxone compound, all packed in a neat compact wooden case (total weight 4½ lbs.) . . . \$20.00

3117.* Extra cartridges of oxone compound . . . per dozen 4.80

The oxone generator is devised to furnish an always and instantly ready source of absolutely pure oxygen, so simple in operation that it can be used not alone by physicians and chemists, but may be entrusted safely to any intelligent layman.

Oxone is a compact compound of fused sodium peroxide, which upon contact with water generates oxygen gas. It will keep any length of time, and can be transported or stored without any danger of explosion or deterioration.

The oxone used in the portable oxone generator is packed in hermetically sealed tin (cartridges), which, as such, are introduced into the generator, the chemical therefore never being handled. With the needle valve closed the generator will remain in a partly discharged state for any length of time, ready to start at an instant. The cartridge does not deteriorate.

One cartridge produces at ordinary temperature on an average about 7 gallons of oxygen, a quantity usually sufficient for 2 to 3 inhalations. The completely charged apparatus, taking two cartridges, will therefore furnish from 14 to 15 gallons of gas.

Directions accompany each apparatus.

The fire departments of the following cities have endorsed the oxone generator: New York, Philadelphia, Pittsburgh, Johnston, Harrisburg, Trenton, Atlantic City, &c.

The Carnegie Steel Co., Johnston, Pa., after exhaustive tests have adopted it as being the best apparatus for supplying oxygen for emergencies, and are using them in their extensive shops.

Also adopted by the Carnegie Steel Co. at their industrial plants.

Dr. H. R. Owen, chief surgeon of the Bureau of Fire and Police, Philadelphia, states:

"I believe the oxone generators will prove indispensable in the fire department."

Chas. A. Garverich, Esq., chief engineer Department of Fire, Harrisburg, Pa., states:

"The oxone generators in use in the Fire Department have been very satisfactory, and I have no hesitation in recommending them to the various fire departments."

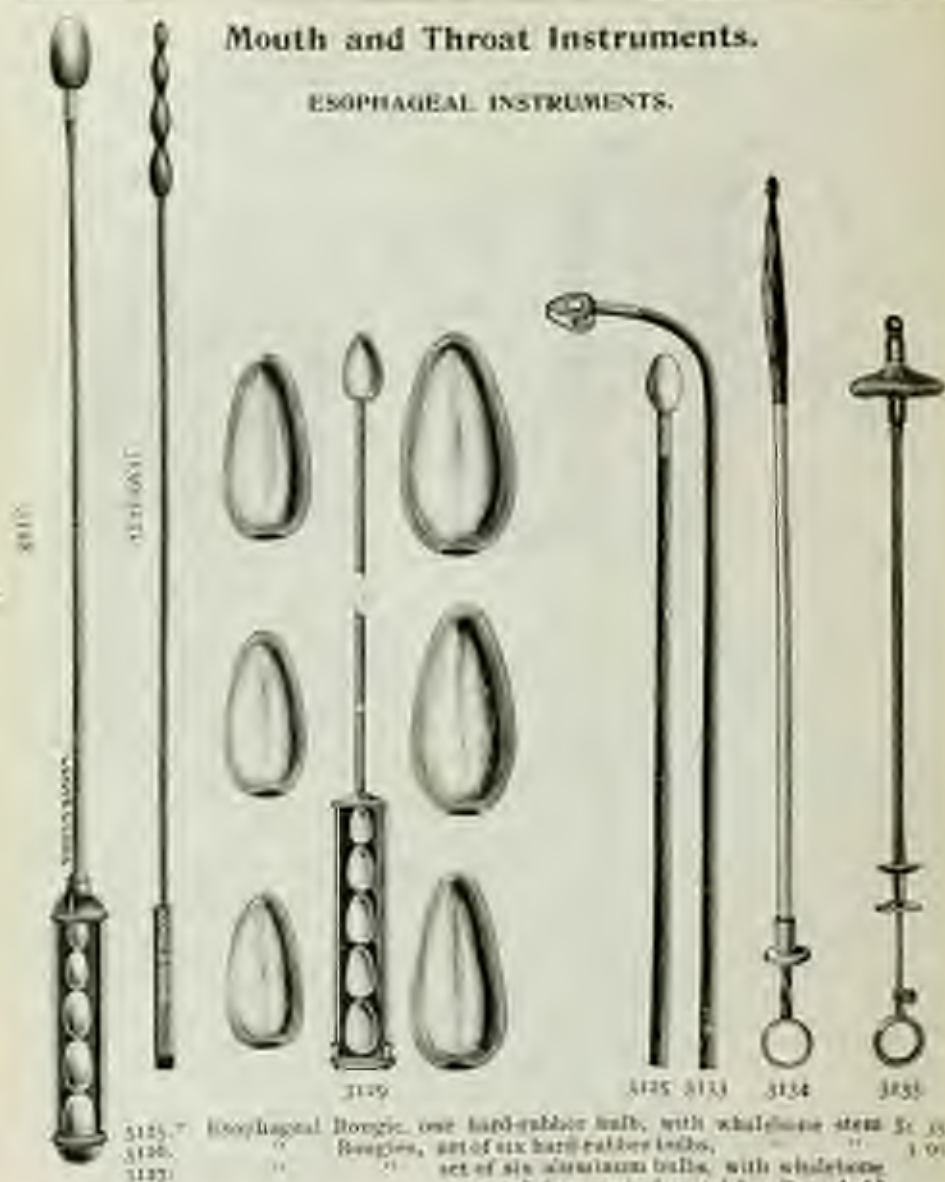
J. T. Beckwith, M.D., chief surgeon Fire and Police, Atlantic City, N. J., says:

"We have found the oxone generators invaluable. They are always ready for instant use in cases of drowning, asphyxia or shock."

All articles illustrated are designated by a *

Mouth and Throat Instruments.

ESOPHAGEAL INSTRUMENTS.

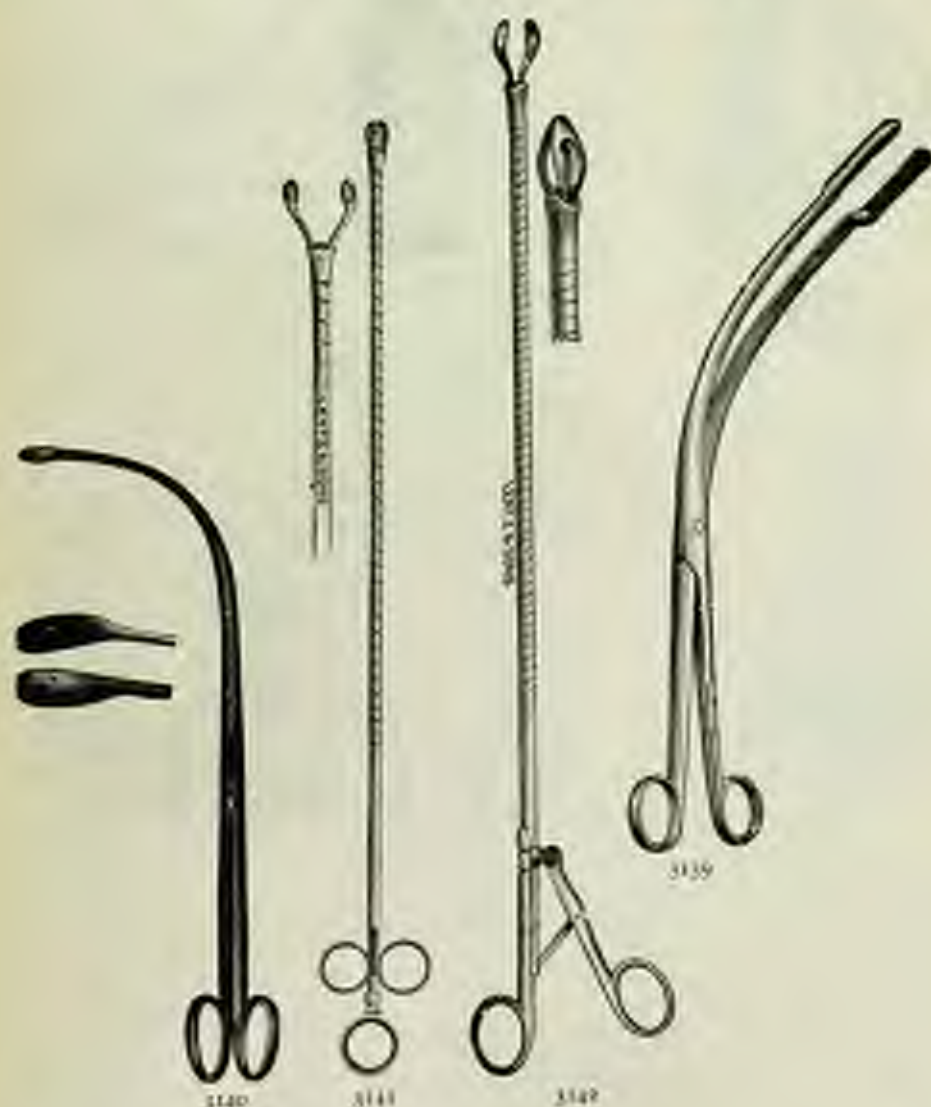


3125.	Bougies, one hard-rubber bulb, with whalebone stem	50
3126.	Bougies, set of six hard-rubber bulbs, with whalebone stem and fine conical metal handle to hold bulbs	1 00
3127.	Bougies, set of six nickel-plated bulbs, with whalebone stem and cylindrical metal handle to hold bulbs	1 00
3128.	Bougies, set of six nickel-plated bulbs, with whalebone stem and cylindrical metal handle to hold bulbs	3 25
3129.	Bougies, same as fig. 3128, but with spiral-wire stem	2 25
3130.	Cole's, all whalebone, four sizes of round bulbs	2 40
3131.	Bougies, four sizes of oral hard-rubber bulbs on whalebone stem	2 40
3132.	Bougies, four sizes of oral hard-rubber bulbs on whalebone stem	2 40
3133.	Con. Catcher, metal, with metal stem	1 75
3134.	Con. Catcher, woven linen, covered, hard rubber tip, best quality	1 45
3135.	Bougies, all metal, except the handles, which can be easily renewed	1 25
3136.	Bougies, (for fig. 3135)	25

Fig. 3129 shows actual sizes of bulbs usually furnished.

Mouth and Throat Instruments.

FOR THE REMOVAL OF FOREIGN BODIES.

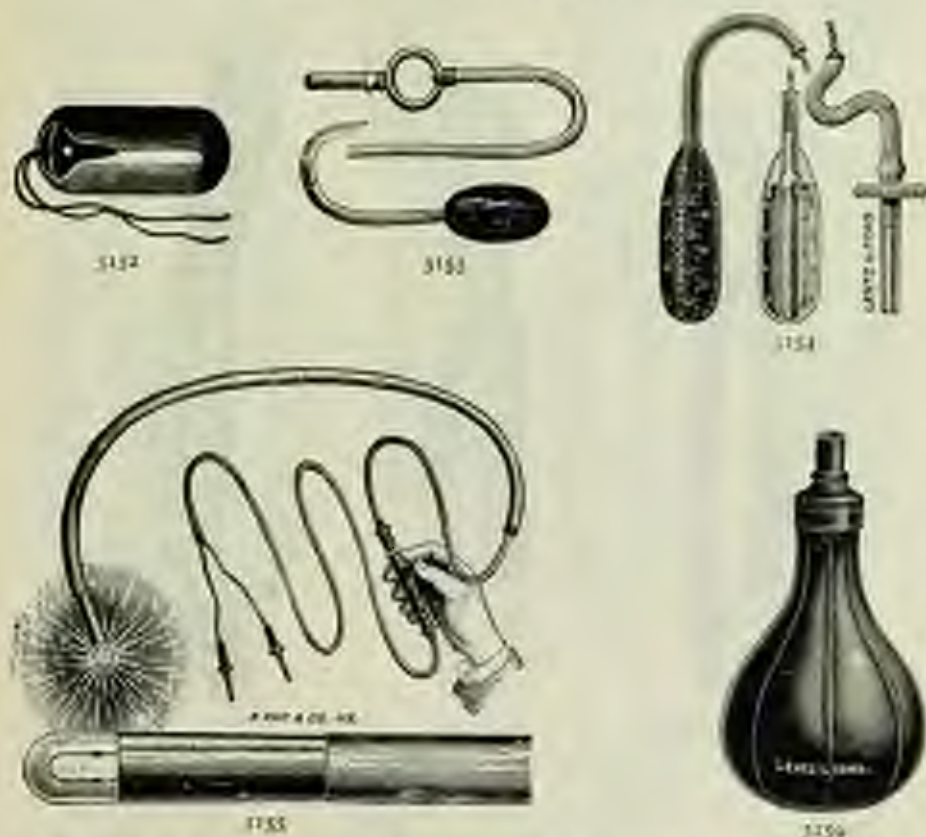


3138.	Esophagus	Forceps, plain	.....	\$3.00
3139.	"	" Bond's	.....	2.50
3140.	"	" Fauvel's	.....	1.00
3141.	"	" spinal	.....	3.75
3142.	"	" " Dawson's	.....	5.00

(All instruments illustrated are designated by a *.)

Mouth and Throat Instruments.

APPARATUS FOR GASTRIC DIAGNOSES.



- 3132.* Stomach Rocket, Bishorn's, for securing sample of contents of stomach . . . \$3 00
 3133.* " Electrode, Bishorn's, detachable, for direct electrocution . . . 2 00
 3154.* " Boardman Reed's modified Bishorn's . . . 1 00
 The hard-rubber bulb, besides being longer and considerably less in diameter than the original model, tapers very gradually at its proximal end to the size of the thin soft-rubber tube through which pass the copper wires constituting the theophore. The perforations in the bulb are smaller, only possible size, so that while water enters freely, mucus does not. The increased diameter of the bulb facilitates its introduction, and the gently tapering upper end greatly assists the act of withdrawal. The conducting wires can be, by means of a simple device, detached from the rubber covering as well as from the attachments at either end, so as to admit of complete disinfection.
- 3135.* Gastro-Diaphragm, Bishorn's, for transillumination of the stomach, for diagnosing dilation of the stomach, gastropexia, and also tumors or thickenings of the front wall of stomach by lack of transparency of such portions . . . 5 00
 3136. Gastro-Diaphragm, Lincoln's mod. Bishorn's . . . 0 00
 3137. Outfit for Stomachal Diagnosis, Bishorn's, consisting of silver bucket, nest of a porcelain dishes, glass rod, glass pipette, small glass bucket, bottle of Gussberg's solution, litmus and Congo paper, in neat morocco case . . . 4 50
 3138. Gastric Alometer, Bishorn's, for distension of gastric membrane . . . 3 00
 3139.* Kistner's Bulb, 12 oz. capacity, used in connection with stomach tube for extracting contents of stomach after a test meal . . . 2 00

*All instruments illustrated are designated by a *.*

Teeth Extracting Instruments.

These instruments are of the best quality, and have been carefully adapted to the various requirements of teeth extraction. A variety of shapes of correct patterns are illustrated for ready selection.

Tooth Forceps, every one warranted each \$1.50



3173



3179

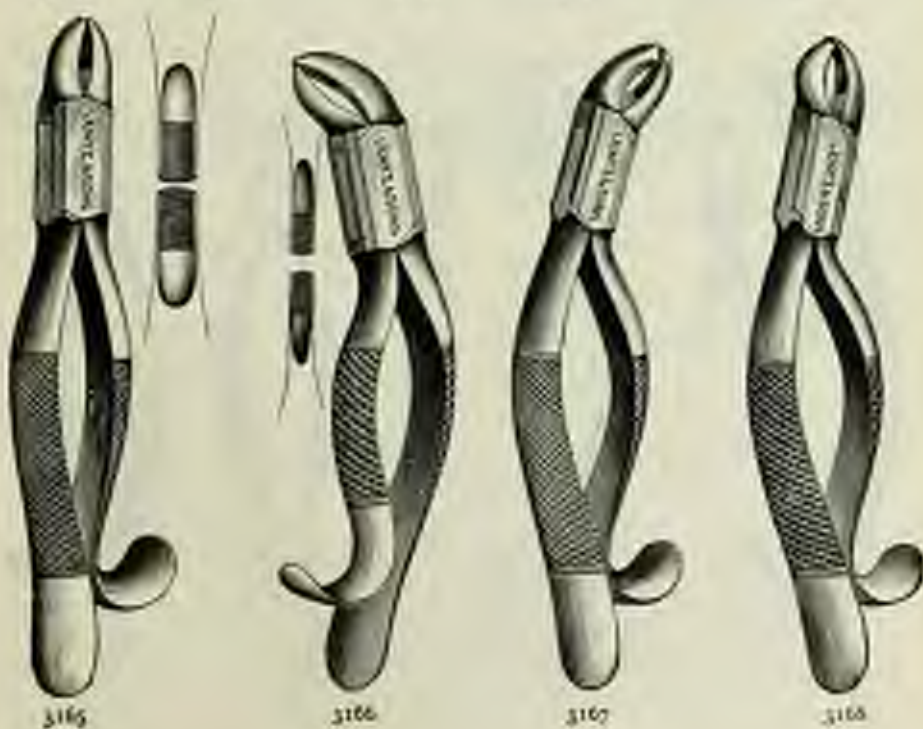
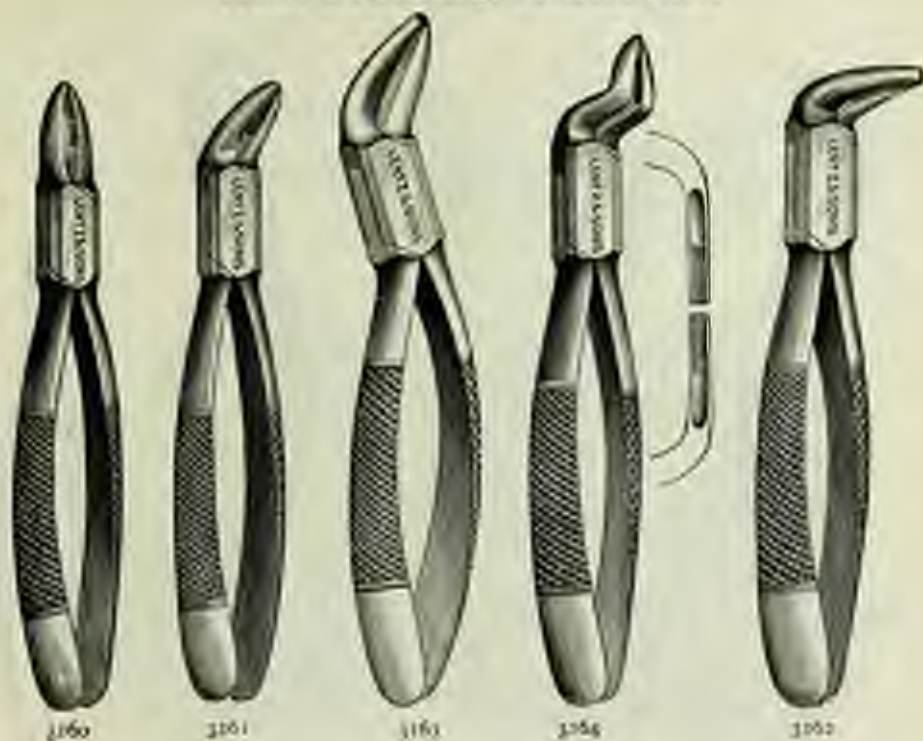


3182

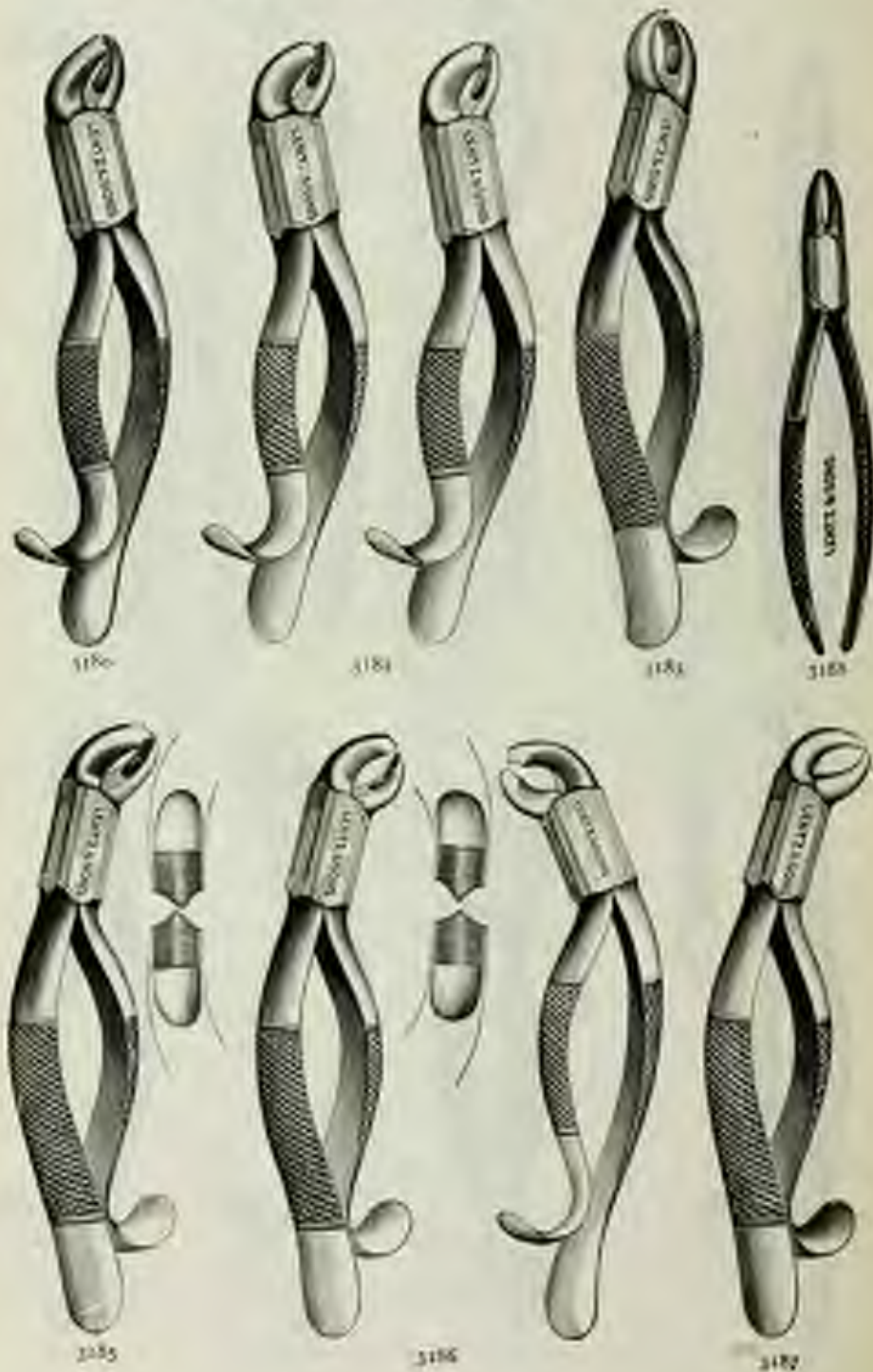
- | | | |
|-------|--------|---|
| 3160* | No. 1. | Root, Upper, front, straight. |
| 3161* | " 2. | " " " and Lower, half-curved. |
| 3162* | " 1. | Lower, full-curved. |
| 3163* | " 7. | Universal. |
| 3164* | " 15. | Bayonet-shaped. |
| 3165* | " 13. | Incisor, Upper, with or without hook on handle. |
| 3166* | " 36. | Lower, hawk bill, for front teeth. |
| 3167* | " 34. | " or Bicorned, Lower, for either side. |
| 3168* | " 11. | Bicuspid and Canine, Upper. |
| 3169* | " 40. | " Incisor, " |
| 3170* | " 27. | " Canine, " |
| 3171* | " 4. | " Upper and Lower, half-curved. |
| 3172* | " 33. | Abrams. Parry's, straight beak. |
| 3173* | " 39. | " half-curved beak. |
| 3174* | " 34. | " " full-curved " |
| 3175* | " 32. | " Bayonet-shaped beak. |
| 3176* | " 8. | Dentes Sapientiae, Upper, either side. |
| 3179* | " 24. | Molar, Universal, Upper, straight handle. |
| 3180* | " 24. | " " " hook on handle. |
| 3181* | " 30. | " Bayonet-shaped, Upper Wisdom. |
| 3182* | " 18. | " Upper, right and left, one for each side. |
| 3183* | " 45. | " Cow horn, either side. |
| 3184* | " 27. | Lower, full-curved, for either side, straight handle. |
| 3185* | " 17. | " " Harris', for either side, hook on handle. |
| 3186* | " 28. | " " " right and left, one for each side. |
| 3187* | " 16. | " Cow-horn, for either side. |
| 3188* | " 30. | Children's, straight or curved. |

All instruments illustrated are designated by a *

Teeth Extracting Instruments.



Teeth Extracting Instruments.



Teeth Extracting Instruments.



- 3191.* Root Elevator, three patterns, with *rosed*, black handle each \$0 25
 3192. Gum Lancet, all metal 75

3193.* Extracting Set No. 1.

- Contains two Upper-Molar Forceps, right and left; one Lower-Molar Forceps; one Incisor Forceps; one Root Forceps. In a roll-up leather case, chamois lined \$ 75
 Same with Gum Lancet and Elevator in addition 9 75

3194. Extracting Set No. 2.

- Contains two Upper-Molar Forceps, right and left; one Lower-Molar Forceps; one Incisor Forceps; one Bicuspid Forceps; one Root Forceps; one Elevator; one Gum Lancet. In a roll-up leather case, chamois lined 11 00

3195. Extracting Set No. 3.

- Contains two Upper-Molar Forceps, right and left; two Lower-Molar Forceps, right and left; one Window Forceps, bayonet-shaped; one Bicuspid Forceps; one Root Forceps, half curved; one Root Forceps, bayonet-shaped; one Elevator; one Gum Lancet. In a roll-up leather case, chamois lined 14 50

3196. Morocco Roll Case, lined with chamois skin, to hold six instruments, \$1 50;
 to hold eight instruments, \$2 85; to hold ten instruments 2 25
 3197.* Canvas Roll Case, to hold eight to ten instruments 75

*All instruments illustrated are designated by a *.*

Mouth and Throat Instruments.

STERILIZERS.



3200



3205



3206

3200.* Sterilizer. Franklin's; copper, nickel-plated; with Bunsen burner, valve to drain the water, and ventilator in lid for the escape of steam; including perforated tray and 6 ft. mohair covered gas tubing (small size).
 12 x 5 x 3 in. . . \$14 00
 large size,
 15 x 6 1/2 x 4 1/2 in. . . 16 90
 extra large, 18 x 9
 x 6 in.; double
 Bunsen burner;
 water gauge . . . 17 75

3204.* Sterilizer, electrical, "Simplex;" copper, nickel-plated, tin lined; including perforated tray and 5 ft. cord with connector. Very convenient and economical. Specify whether for direct or alternating current, also voltage.
 8 x 3 1/2 x 2 in., no handles, with lamp socket plug . . . 10 00
 10 x 4 1/2 x 2 in., with handles and lamp socket plug . . . 12 00
 13 x 6 1/2 x 2 1/2 in., with handles, no plug . . . 14 00

3203.* Sterilizer, "Phila.," for the specialist. Upright form, copper, nickel-plated; with a circular Bunsen burner, and in addition with a small pilot which may be kept burning continuously and which produces just enough heat to keep the water hot;
 extreme height, 10 in.; diameter of base, 8 in. . . 11 00

3206.* Sterilizer, "EXL," copper, nickel-plated; with hinged lid, perforated tray, and full-length Bunsen burner; mounted on base three inches high;
 small size, 8 x 6 x 2 inches . . . 7 00
 medium size, 12 x 7 x 3 inches . . . 9 75
 large size, 16 x 7 x 4 inches . . . 12 50

All articles illustrated are designated by a *.

Mouth and Throat Instruments. SPECIALISTS' OFFICE FURNITURE.



3200* C. & R. Specialist's Outfit of Office Furniture \$125.00
 Consisting of C. & R. Specialist's Cabinet, \$90.00; Patient's Chair,
 \$25.00; Operator's Stool, \$10.00.

Illustration shows a three-piece set for specialists in eye, ear, nose and throat work. It makes a most handsome and complete outfit for work in this line.

The cabinet has a dustproof, glass-encased compartment with double doors, an adjustable glass shelf and glass top. It has two glass shelves on top with guard-rail around them and clips for bottles and spray tubes. There is a large beveled plate mirror at the back of these shelves. The lower part of the cabinet has nine drawers of various sizes and a closet, all made entirely of metal with white enamel finish inside.

The cabinet is made entirely of metal and is finished either in white enamel or the grained enamel finish. It is made of such a convenient height that anything in it can be reached while the operator is sitting. The glass in cabinet is polished plate.

The operator's stool is made with a receptacle underneath for waste, cotton, etc.

Specialists' Office Furniture.



- 3492.* Allen's Combination Set \$85.00
 Consisting of Allen's Treatment Table and Cabinet (including
 twelve assorted bottles) 67.00
 May's Ophthalmic Chair 18.00
 White Enamelled Stool 6.00
 Cupidice and Stand 4.75

The Table-Cabinet is made entirely of metal, with porcelain enameled iron top and rounded corners; 30 inches wide, 18 inches deep, 32 inches high. It has five metal drawers, a cabinet for instruments with shelf, also a compartment with drop door for soiled napkins, &c. The top of the table is equipped with an oxidized copper railing to hold the twelve treatment bottles and eight accessories.

3214.* Specialist's Treatment Chair.

- a. Wood seat and back, cherry or oak . . . 45.00
 b. Seat and back upholstered in genuine leather 30.00
 c. Genuine mahogany seat and back . . . 30.00
 d. Genuine mahogany with leather seat and back 55.00

The back of the chair is designed in a special curved pattern, and is adjustable up and down within a range of nine inches. The seat, fixed on a heavy steel screw, revolves independent of the back. A hand lever at rear of the seat enables the operator to recline the back in order to secure the angle desired for his work. By means of a foot lever the entire chair may be tilted backward.

The two sections of the head rest are adjustable.

The base is finished in black enamel, handsomely ornamented; trimmings oxidized copper.



All articles illustrated are designated by a *.

Specialists' Office Furniture.



3216.* Pynchon's Cabinet.

- a—with polished wood top (no mirror back) \$60.00
- b—with plate glass top, front edge ground and polished 65.00
- c—with plate mirror top, front edge ground and polished 67.00
- d—with plate glass top and beveled plate mirror back 75.00
- e—with plate mirror top and beveled plate mirror back 77.00
- f—with plate mirror top, beveled plate mirror back, two plate glass shelves with polished front edges, and with a swinging spray heater 85.00

The cabinet is provided with 17 drawers of various sizes, each partitioned to accommodate the instruments; also with compartments for clean and for soiled linen. The compartment for clean linen has a glass shelf and beveled plate glass door. Special attention is drawn to style f (illustrated), it being the perfection of completeness. Descriptive booklet on request.

3218.* Merkel's Cabinet.

- a—with double strength glass throughout, except shelves which are plate \$80.00
- b—with beveled plate mirror back in addition 85.00
- c—with beveled plate in doors and top section 90.00

The Merkel cabinet combines the features of the larger instrument cases and of the general nose and throat cabinets. The top section has two plate glass shelves 28 x 7 1/2 inches, and is intended for instruments of the larger type. The lower section has porcelain enameled iron top 28 x 20 inches, with rubber bottle racks with 26 bottles or with clips for atomizers. There are further provided a cotton holder in small drawer, a tray for soiled covers, a compartment for clean linen with plate glass shelf, and a glass-lined drawer for soiled linen.

The cabinet is made of quartered oak, no veneering being used, finished in any desired shade. Mounted on ball-bearing casters. The interior is finished in hard white enamel.

Specialists' Office Furniture.



3220



3230



3228



3224

- 3220* Instrument Cabinet, metal, white enameled, with three plate glass shelves 15 x 20 inches, ground edges; total height 55 inches, width 24 inches, depth 20 inches. \$42 00
 For polished edges on plate glass shelves, add \$3.00.
- 3222 Instrument Cabinet, tubular steel, white enameled, with four plate glass shelves 15 x 20 inches, polished edges; total height 61 inches, width 24 inches, depth 20 inches. 50 00
- 3224* Instrument Cabinet, metal, white enameled, with six plate glass shelves 15 x 20 inches, polished edges; height 72 inches, width 24 inches, depth 20 inches. 55 00
- 3226 Treatment Table, porcelain enameled iron top 15 x 20 inches, with nickel-plated guard rail and twelve spring clips to hold spray bottles. 12 00
- 3228* Treatment Table, plate glass top 15 x 20 inches, and glass shelf; frame is bridged in front to accommodate operator's stool underneath. Guard rail, twelve bottles included. 15 75
- 3230* Treatment Table, white enameled, with milk-white glass top 15 x 20 inches, milk-white glass shelf and six glass-lined drawers. The top guard rail is of oxidized copper and is provided with twelve assorted bottles in rack, also with additional clips to hold spray tubes. 40 00

Specialists' Office Furniture.



3231



3232



3233



3234



3235



3237

3231.*	Chair for Patient, golden oak, brassy finished	\$4 30
3232.*	" " " " " " with side arms	7 50
3233.*	" " " " " " " and adjustable head rest	10 50
3234.*	Stool for Operator, " " "	3 50
3235.	Cuspidor Holder, antique copper plated	3 50
3236.*	" " and Cuspidor, both antique copper plated	4 20
3237.*	Combination Stool and Waste Canister Holder, white enameled	9 00

All articles illustrated are designated by a *

Mouth and Throat Instruments.**SPECIALISTS' OFFICE SUPPLIES.**

3230

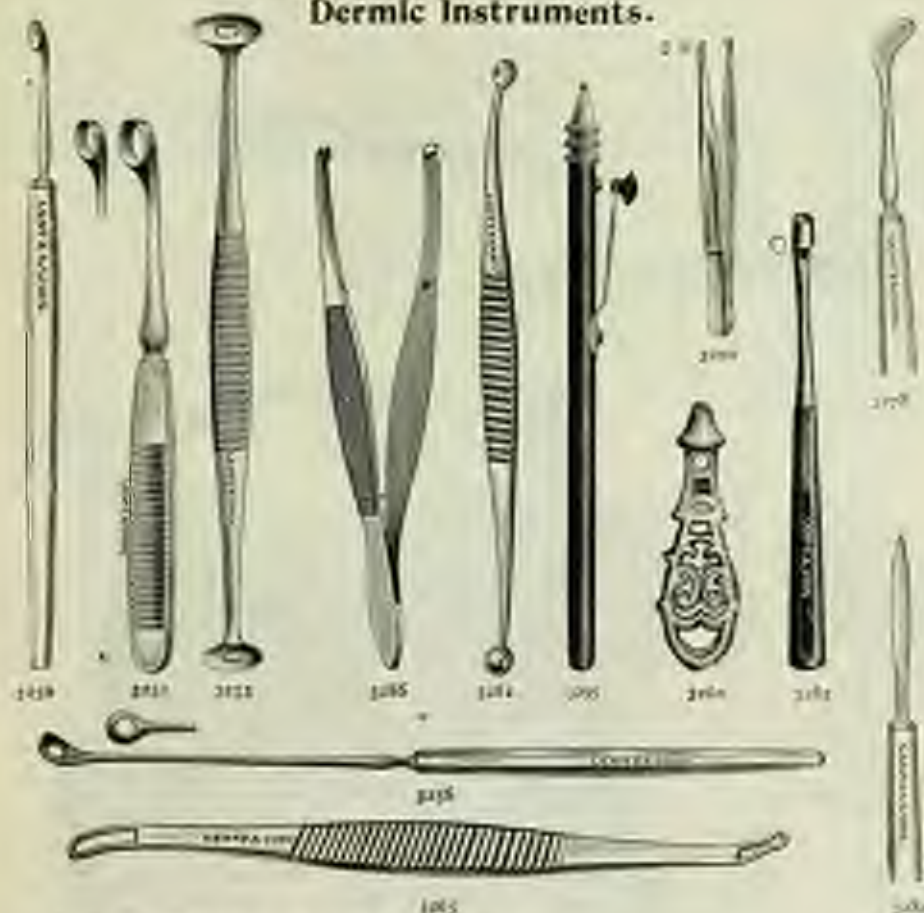


3241

- 3230 "Philadelphia" Fountain Cupidol, for the throat and nose specialist. (Glass bowl), either green or crystal as desired, on adjustable, portable stand with supply and off-flow tubing. Including either wall or floor fixture for water connection. \$50.00
- 3241 "Polydoric" Fountain Cupidol, same as Fig. 3230, but with the addition of a goose-neck attachment and stopcock. 55.00
- 3242 "Filling" Fountain Cupidol de Luxe, for the throat and nose specialist. Thoroughly aseptic. Is of genuine, solid, white, vitreous china, set in iron casting, and corresponds in quality with the very highest grade of bathroom fixtures. No metal is shown except the stopcock at back, the water connection being made under the base through the floor. Height from floor to top, 28 inches; outside diameter of bowl, 20½ inches; diameter of base, 21½ inches. The cupidol is provided with trap allowing overflow of water, also with excess overflow at top of bowl, preventing all possibility of the bowl overflowing. 45.00
- 3243 "Filling" Fountain Cupidol de Luxe, same as Fig. 3242, but with the addition of goose-neck and stopcock attachment for drawing water into drinking glass. 50.00

SECTION VII

Dermic Instruments.



2138	Curette, Fox's, sharp, aluminum handle, three sizes	each \$1.00
2139	Pillard's, sharp	each .50
2140	" Lassar's, long oval spoon at side of shaft, three sizes	each .50
2141	" Schwanke's, double, fenestrated, two sizes of long oval spoon	each .50
2142	" Martin's, double-ended, round, sharp edge scoop	each .50
2143	" Fox's, and Acne Lasso, combined, in metal screw case	each .50
2144	" Wolf's, small ring, sharp, three sizes	each .50
2145	Comedone Extractor, Pillard's	each .25
2146	" " " " " " " "	each .25
2147	" " " " " " " "	each .25
2148	" " " " " " " "	each .25
2149	" " " " " " " "	each .25
2150	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2151	Needle, Pillard's	each .50
2152	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2153	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2154	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2155	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2156	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2157	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2158	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2159	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2160	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2161	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2162	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2163	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2164	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2165	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2166	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2167	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2168	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2169	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2170	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2171	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2172	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2173	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2174	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2175	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2176	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2177	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2178	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2179	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2180	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2181	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2182	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2183	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2184	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2185	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2186	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2187	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2188	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2189	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2190	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2191	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2192	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2193	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2194	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2195	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2196	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2197	Needle, Fox's, sharp, aluminum handle, three sizes	each .50
2198	Needle, Fox's, sharp, aluminum handle, three sizes	each .50

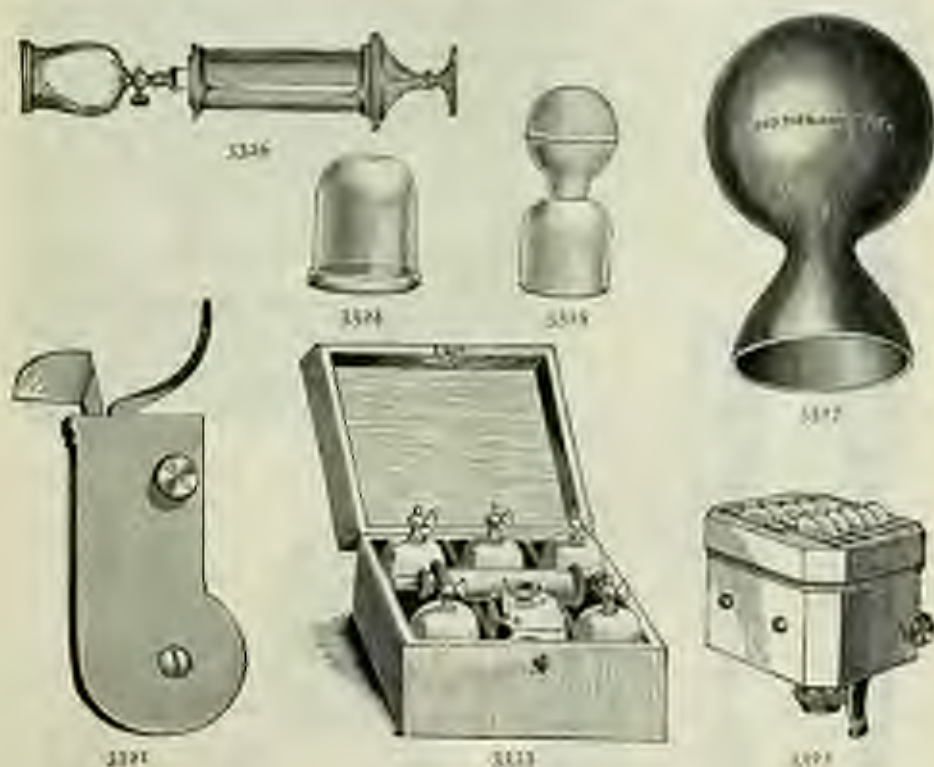
Dermic Instruments.



1300.	Skin-Grafting Forceps, Piffard's (grasping forceps)	\$1.75
1301.*	" " " with fine teeth	1.00
1302.	" " Scissors, curved, delicate blades (see fig. 1811)	1.00
1303.*	" " Smith's	6.25
1304.*	" " Runcie, specially ground	hard rubber handle 1.25 metal handle 1.75
1305.*	" " Retractors, McBarney's	each 2.50
1306.	" " Knife, Tiersch's, with hollow metal handle	3.50
1307.	" " Kottner's	3.75
1310.*	Dermic Set, Schanberg's, consisting of 1 Piffard's Sharp Curette, Scalpel, Double-edge Lancet, Curved Scissors, Urethra's Comedone Extractor and Acne Lancet, combined, Forceps with fine teeth, Eviscerating Forceps, Needle-holder, Needles and Silk, in metal case with aluminium rack and pouch 18.50	

*All instruments illustrated are designated by a *.*

Cupping, Phlebotomy and Leeching Instruments.



3320.	Spring Lancet, with lever trigger	\$1.50
3321.*	" " with button trigger	1.25
3322.*	Scarificator, twelve blades, reversing by lever, in case	3.50
3324.*	Cupping Glasses, ordinary, assorted sizes	each, 15c; per doz. 1.85
3325.*	" " with rubber bulb, assorted sizes	each .50
3326.*	" Glass, " stop-cock and air pump	3.25
3327.*	" Cup, all rubber	1.50
3328.	" Glasses, with screw-hole, to use with pump	each .75
3329.	Stop-cocks for " " " " " "	60
3332.	Cupping Case, No. 1, contains one Pump; three Glass Cups; three Stop-cocks; one 12-blade Scarificator; in plain, strong box	9.00
3333.*	Cupping Case, No. 2, contains one Pump; five Glass Cups; five Stop-cocks; one 12-blade Scarificator; in plain, strong box	12.00

*All instruments illustrated are designated by a **

Cupping, Phlebotomy and Leeching Instruments.



3359



3345



3352



3358



3357



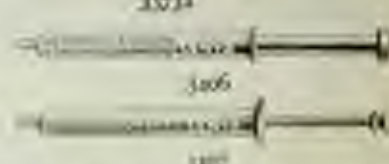
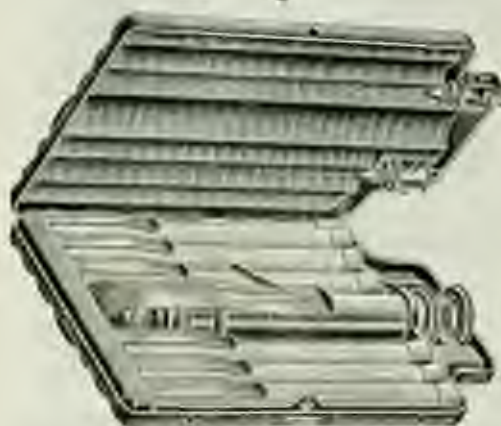
3354-3355



3353

3356.	Artificial Leech, "Lass", in case	\$7.00
3357.	"Bacon's, with glass cup and bulb	5.50
3358.	Live Leeches	per half dozen 2.00
3359.*	Instrument for Counter-Irritation, Harnschoidt's	1.75
3360.	Oil, Harnschoidt's	per bottle 1.00
3345.*	Cupping Case No. 3. Containing one Pump; three Glass Cups; three stop-cocks, in neat leather case	6.50
3346.	"Bacon, for leg	6.00
3347.	"Sleeve, for arm	4.00
3353.*	Cap, "Hygienic" breast pump with rubber bulb	.50
3354.*	"Modern," = 10 3 inches diameter	each 3.00
3355.*	Breast Developer, "Modern," 4 inches diameter, \$3.50; 5 inches	4.00
3356.*	with sponges for counter-irritation, 4 inches diameter, \$5.00; 5 inches	6.00
3357.*	Penis Developer, "Modern" with metal pump, nickel-plated	5.00
3358.*		3.75
3359.*	Massage Ball, iron, leather covered, 2 1/4 lb., \$1.25; 3 1/4 lb., \$1.50; 5 lb., \$1.75; 7 lb., \$2.25	2.25

Hypodermic Syringes.



HYPODERMIC SYRINGES.

3270.*	Glass Barrel Syringe, only.	leather plunger	\$0 50
3270*	"	expanding leather plunger	75
3271.*	All Metal	solid metal plunger	1 00
3271a.*	"	extra fine	1 25
3272.*	All Glass	cc. syringe, Luer's, accurately ground barrel and plunger	1 50
3272a	"	2 c.c., Luer's, accurately ground barrel and plunger	1 75
3273	All Glass Syringe, Luer's	"Tigra" asbestos packed plunger, in box, with two needles	85
3273a	All Glass Syringe, "Sub Q."	asbestos packed plunger, in box, with two needles	1 25
3273b	Dental Syringe, all metal, high pressure, with horns to fit palm of hand		2 50
3400.*	Tuberculin Syringe, Fournier's, $\frac{1}{2}$ c.c. or 1 c.c., graduated in one-hundredths, in metal case; with two steel needles, \$4 00; with two platinum needles		5 00
3400a	Tuberculin Syringe, "Sub Q." asbestos packed plunger, $\frac{1}{2}$ c.c. or 1 c.c., with two steel needles, in leatherette case		1 50
3407.*	Gray-Oil Syringe, Bartholemew's, 1 c.c., graduated in one-fortieths, in metal case; with two steel needles, \$2 00; with two platinum needles		5 00
3408.*	All Metal Syringe, Fig. 337a, Non Plus Ultra; with two needles and vials, in metal case		2 50
3409.*	Tablet Case, earrocco, leather lined, with twelve standard size vials		95
3410.	"	German silver, nickel-plated, with twelve standard size vials	1 00

Hypodermic Syringes.



3375



3379 and 3383



3393-3394



3396-3397



3411

HYPODERMIC SYRINGES WITH TWO STEEL NEEDLES IN CASES.

3375*	Glass Barrel Syringe, Fig.	3376, leather plunger, in fine leather case	\$1.45
3376	All Metal	3377, solid metal plunger, in fine leather case	1.65
3378	Glass Barrel	3379, in aluminum case, with four vials	1.65
3379*	"	3379, " " " " " four " "	2.00
3380	All Metal	3379, " " " " " four " "	1.90
3385*	"	3379, " " " " " six " "	2.25
3393*	All Glass	3372, Luer's, 25 m., in fine German silver case, with six vials	2.50
3394*	"	3372, " 2 cc., in fine German silver case, with six vials	2.75
3395	All Metal	3371a, Luntz's "Perfection," in fine German silver case, like No. 3393	2.50
3396*	"	"Military" outfit, in flat case, concealed to fit hip pocket; with five vials	3.50
3397*	"	"West Point" outfit, like No. 3396, but with three vials	3.00
3398	"	Fig. 3371, in compact, gun-metal finished case	1.75
3399	"	Combined Syringe and Thermometer, with chain	2.00
3411*	"Record" Precision Syringe, made of glass and metal only; in metal case.		
	1 c.c., with two steel needles, \$3.25; 5 c.c., with two steel needles		5.50
	2 " " " " 4 cc.; 10 " " " " " "		6.50

Hypodermic Syringes and Needles.



HYPODERMIC SYRINGES WITH TWO NEEDLES IN CASES.

- 3400.* Glass Barrel Syringe, Fig. 3370, leather plunger, in folding morocco case. \$1.75
 3401.* All Metal " " 3371, solid metal plunger, genuine morocco case 2.75
 3402.* " " " 3372, solid metal plunger, genuine pigskin case 3.00

ANTITOXIN SYRINGES WITH TWO NEEDLES IN METAL CASES.

- 3403.* All Glass Syringe, Luer's, accurately ground, box \$4.50; 100cc. 5.50
 3404.* All Metal " solid metal plunger box 3.50; 100cc. 4.00

HYPODERMIC NEEDLES.

All the steel Hypodermic Needles with the exception of No. 3412 are made of finest quality, seamless, guaranteed steel tubing, with razor edge point, hand honed.

- 3412.* Universal Thread, competition grade per box of one dozen \$5.00
 3413.* " " Lint's "Perfection," best quality, seamless steel. doz., \$1.25; each 15
 3414. To fit "Toga" or "Safe Q" syringes " 2.00; " 20
 3415. " " "Record" 1 and 2 c.c. " 2.50; " 25
 3416. " " " " " 3.50; " 40
 3417.* P. D. & Co's style and thread " 2.00; " 25
 3418. " " Schimmel pattern, six in tube per tube 50
 3420. To fit all sizes of Luer's syringes doz., \$2.00; each 20
 3422. Gold, universal thread " " 60
 3423. Platinum, universal thread " " 85
 3424.* Dental, short shank, short needle doz., \$2.00; " 25
 3425. To fit all regular thread metal antitoxin syringes 3.00; " 30
 3426. Hypodermic Spoon, Moore's, folding, for dissolving tablets " 20
 3427. " " Tablet and Needle Spoon, Linsbridge's, folding " 65

We repair all kind of Hypodermic Syringes, can supply new glass barrels, etc.
 For approximate cost see index "Repairing."

Diagnostic Instruments.

SELF-REGISTERING CLINICAL THERMOMETERS.



Clinical Thermometers.

3448.*	Lentz's "Toga," one-minute, magnifying lens, with certificate	\$0 75	
3449.*	in case with chain	85	
3452.*	"Keystone," two-minute, magnifying lens	1 00	
3452.*	"Perfection," one-minute	1 25	
3453.*	"half"	1 20	
Our "Perfection" thermometers are certified by the United States Bureau of Standards.			
3459.*	"Perfect," one-minute, enclosed in glass tube (aseptic), with certificate	1 25	
3470.*	Fahrenheit and centigrade combination scale, magnifying lens, with certificate	1 50	
3471.*	Rectal, magnifying lens, with colored back, easily distinguishable	1 25	
3452.*	Hicks', two-minute, non-magnifying, with certificate	1 00	
3457.*	magnifying lens	2 00	
3458.*	one-minute	2 75	
3461.*	half-minute	2 00	
3462.*	"Rapallo," does not require shaking down. At end opposite bulb is a small flattened bulb, also containing mercury. When pressing this bulb between fingers the mercury from it compresses the intervening air, which in turn forces the registering column back to its bulb. We recommend it. Half-minute, magnifying lens, with certificate of the Kew Observatory		4 00
3477.*	Thermometer Cases, with chain and pin, aluminum	each 25	
3490.*	all sterling silver, choice variety, according to the weight and design	\$1 75 to 6 50	
Clinical Thermometers, when ordered to be sent by mail, will be forwarded carefully packed, at purchaser's risk of breakage or damage in transit.			

Diagnostic Instruments.



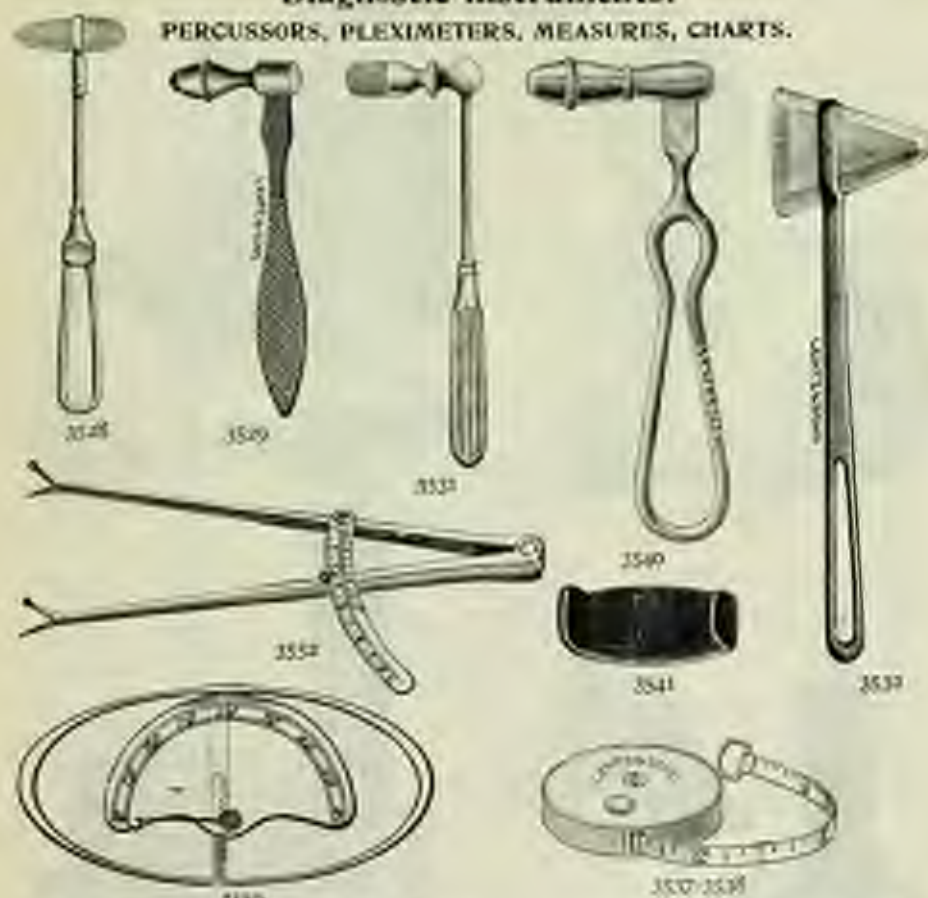
STETHOSCOPES.

3524.*	De Costa's, metallic, with hard rubber earpiece, to unscrew	\$5 00
3525.*	Dallas's, chest and earpieces of hard rubber, separable	1 25
3526.*	Sontrou's	1 25
3527.*	Musier's	1 25
3528.*	Ford's	2 00
3529.*	Oertel's, for measuring relative intensity of heart sounds	5 00
3530.*	Bowles' improved, chestpiece 2½, 1½ or 1¼ in., \$4 00; with extra bell	4 50
3531.*	original, " 2½, 1½ or 1¼ in., 4 00; " "	4 50
3532.*	" with flat-iron slumped chestpiece, 2 90; " "	5 00
3533.*	" Multiple, for teaching auscultation, for two persons, \$5 00; for three, \$6 50; for six, \$9 00; for twelve persons	12 00
3534.*	Dittmar's, with rubber tubes and hard rubber tips, in leather pouch	2 25
3535.*	binaurals, in wooden case	3 00
3536.*	Kehler's, " rubber tubes and either 2 in. or 1½ in. chestpiece, in metal case	2 25
3537.*	" " binaurals and either 2 in. or 1½ in. chestpiece, in wooden case	3 00
3538.*	Anness, "Duplex," with small and large discs; embodies principle of Oertel	1 50
3539.*	Phonendoscope, in metal case	1 50
3540.*	Mira-Membrane, single disk, very small, similar to 3520	2 00
3541.*	Binaurals, plain	regular, \$0 75; folding
3542.*	For Bowles' Stethoscope: hard rubber disc, \$0 20; tubing, per foot	25
3543.*	Soft rubber cap	small, \$0 20; medium and large, each
3544.*	Metal Protector, fits over Diaphragm; three sizes	25

All instruments illustrated are designated by a *.

Diagnostic Instruments.

PERCUSSORS, PLEXIMETERS, MEASURES, CHARTS.



3528*	Percussor, Flint's, metal handle	\$0 75
3529*	" Winterich's, metal handle	1 00
3530*	" French's, ivory handle	1 30
3531*	" Niemeyer's	1 95
3540*	" R. N. Wilson's	1 50
3532*	" and Knee-jerk Hammer, Taylor's	1 25
3554*	Pleximeter, Flint's, oval	65
3541*	" R. N. Wilson's, ivory	75
3535*	" Struck's, hard rubber	40
3536*	" Sarsen's	75
3537*	Tape Measure, linen, in nicked case, with spring and stop; 5 ft., 90c.; 6 ft., 1 00	60
3538*	" steel, 5 ft., \$1 10; 6 ft., 1 30	1 30
All tape measures graduated in inches and centimeters.		
3551*	Esthesiometer, Alfred Gordon's	4 75
3552*	" Carroff's	3 00
3553*	" Hammer's	3 00
3554*	Dynamometer, Collie's, with scale each for pressure and for traction	0 50
3555*	Dermatograph Pencil, with metal tap to protect the point	15
3490*	Temperature Charts, Lentz's, pocket size	25
3491*	" Wilson's	50
3492*	" and Day Reports combined	50
3493*	Day Reports, Lentz's	50
When ordering charts by mail add 2 cents postage per package of 50.		
3497a*	Clinical Chart Holder with clamp, white enameled; doz., \$9 50; each	90
3497b*	" aluminum	1 00
3497c*	" wood	4 20

Diagnostic Instruments.

BLOOD PRESSURE APPARATUS.



- 3564.* Sphygmomanometer, Faugin's, complete with arm-band, in case; with either double bulb or metal pump. \$30 00
 Registers both the systolic and the diastolic pressure. Very compact and easy to manipulate. Directions with each instrument.
- 3566.* Sphygmomanometer, Janeway's, folding pattern. 14 00
 3566.* Riva-Rocci's modified by Cook; jointed manometer tube; complete, in case. 8 50
- 3569.* Sphygmomanometer, "The Cardiac," small and compact; working on the principle of the aneroid barometer, the pressure registering on dial. Size of the instrument without arm-band, 3 1/4 x 1 1/2 inches. 22 50
- 3569a. Sphygmomanometer, "Tycos" or Rogers. 25 00
- 3569b. Sphygmocardiograph, Jaquet's, with cardiograph attachment, complete, for recording jugular, radial and apex beat. 130 00
- 3569c. Sphygmocardiograph, Jaquet's, for two tracings only, i. e., either radial and apex or radial and jugular. 80 00
- 3569d. Sphygmochronograph, for radial tracings only. 60 00
- 3569e. Sphygmotonomograph, Ulkoed's, for simultaneously recording blood pressure in millimeters of mercury—Canotoid or jugular pulse (or apex beat); Arterial pulse (brachial) at varying pressures (systolic and diastolic); Time in (one-fifth) seconds. 120 00
- 3569f.* Sphygmograph, Dudgeon's. 25 00

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.



1576.*	Ureanometer, plain		\$0
1577.*	" Taylor's, with certificate		1 00
1578.*	" porcelain scale, with graduated jar		75
1579.*	" Squibb's pattern, with Thermometer		1 50
1580.*	" and Thermometer, combined		1 00
1581.*	" jar (only), graduated, as shown in fig. 3578		45
1582.*	Litmus Paper, Tyee's, red and blue on each		25
1583.*	" Paper, red or blue	per booklet	05
1584.*	" Squibb's, red or blue	per bottle	15
1585.*	Test Tubes, assorted sizes	per doz.	35
1586.*	" Holder	wooden, 25c.; Lantz's improved, of a p. wire	25
1587.*	" Stand, for 12 tubes, with 5 pins for draining the tubes, oak wood		15
1588.*	" " " compact and folded when not in use		35
1589.*	Beaker Glasses, according to size	each 25c. to	50
1590.*	Evaporating Dishes, porcelain	1 1/2 oz., 15c.; 3 oz., 20c.; 4 oz., 25c.; 6 oz.,	45
1591.*	" watch glass, 2 inches diameter	per doz.	25
1592.*	Alcohol Lamp, glass, taper	capacity 1 1/2 oz., 20c.; 3 oz.,	35
1593.*	" globe shape	capacity, 5 oz.,	40
1594.*	" metal	brass, 20c.; nickel-plated	60
1595.*	Funnel, glass	2 oz., 15c.; 4 oz., 25c.; 6 oz., 25c.; 10 oz.,	30
1596.*	" lined rubber	4 oz., 20c.; 6 oz., 25c.; 10 oz., 35c.	35

All islets events illustrated are designated by a *.

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.



- 3617.* Albuminometer, Esbach's, for the quantitative estimation of albumen. in wood case on foot. \$0 60
3618. " " with glass foot. 90
- 3621.* Saccharometer, Binknor's, consisting of graduated fermentation tube and graduated test tube; the percentage of sugar is read directly on the tube.
- 3622.* Ureometer, Doremus', with pipette, wood base and metal n. p. clamp. 75
3623. " " without stand. 1 00
3624. " " with glass foot. 1 35
- 3625.* " Doremus-Hinds', with side tube and stopcock, glass foot. 3 00
- 3626.* " " wood base like Fig. 3622. 1 75
- 3627.* " " without foot or base. 1 00
- 3628.* Urea Apparatus, Seubbe's, complete. 2 25
- Test Set, comprising 8 bottles of reagents, urinometer and jar, 2 funnels, 2 beakers, 3 evaporating dishes, spirit lamp, 1) assorted test tubes, test tube holder, graduated pipette, stirring rod, lenses and filter paper; contained in a dust-proof oak folding case with drawer and wood shelf. 6 00
- 3629.* " " same as No. 3628, but with removable glass shelf. 7 00

All instruments illustrated are designated by a *.

Diagnostic Instruments.

INSTRUMENTS FOR URINARY ANALYSIS.



3530* Test Set, Chemical and Microscopical, in polished mahogany case, with drawer; size of case, 10½ x 7½ x 6¾ inches, reagents not included . . . \$8.75
The case contains:

6 Reagent Bottles, glass stoppered; 2 Reagent Bottles, with pipette stopper; 2 Salt Mouth Reagent Bottles, glass stoppered; 4 Beaker Glasses, nested; 12 Test Tubes, assorted sizes; Test Tube Rack; Test Tube Holder; Test Tube Brush; Urinometer, with jar in case; 30-Minute Graduated Pyrexine; Glass Spirit Lamp; Concave Glass Slide; Porcelain Evaporating Dish; 6 Small Glass Evaporating Dishes; 2 Glass Funnel; Glass Stirring Rod; 2 Wire Holders for Funnel; 100 Sheets White Filter Paper; Screw Capped Vial, containing Litmus Paper, neutral; Pincers for holding Litmus Paper; Sheet of Gummied Labels; 3 dozen Glass Slides; 20 Cover Glasses (circles); box Slide Labels.

The Test Tube Rack may be removed from the case, by turning the strips of wood pivoted on the bottom, a firm base is formed.

3532* Albumoscope (Hortismoscope), for detecting traces of albumen in urine; a very delicate instrument indicating 1-60th per cent. of albumen; complete with directions . . . \$1.00

3533* Urinometer, Richmann's, for quick determination of uric acid . . . 2.50

3534* Pannometer, Hall's, for quantitative determination of uric acid . . . 10.00

*All articles illustrated are designated by a *.*

Diagnostic Instruments.

CENTRIFUGES.



3539. Centrifuge, double speed, for sedimentation of blood, urine and sputum, complete with Daland's Hematocrit, fig. 3539 \$30.00
- 3541.* " single geared, for urine sedimentation, complete with plain and graduated tubes 7.90
- 3542.* " water motor, for urine sedimentation, complete with plain and graduated tubes and hose connection 8.00
- 3544.* " electric, with rheostat for selecting various speeds, two-arms sedimentation attachment, plain and graduated tubes; connects with incandescent lamp socket;
 For direct current of 110 or 120 volts 25.00
 For direct current of 220 volts 27.90
 For alternating current of 110 or 220 volts 30.00
- When ordering specify voltage, and if alternating current state number of cycles.
- 3543.* Speedometer 1.00
- 3545.* Sedimentation Tube, not graduated, for urine 12
- 3547.* " graduated, for urine 35
- 3548.* " graduated, for milk, for obtaining percentage of fat 90
- 3549.* Pipette, graduated to 1 c.c., for acid or for filling milk tubes, etc. 15

All articles illustrated are designated by a *.

Section VIII.

Microscopes.



3701

STAND BH.

This Microscope is the most suitable ever offered for most school work. It will be found in the largest and best equipped laboratories where it has been installed after critical and thorough tests. At the unusually low price at which the B-H is offered it is without a peer.

The pillar is of one piece with the horseshoe base and made with inclination joint.

The handle type of the arm is original with Bausch & Lomb; grooved so that the mechanical stage may be attached, and with a distance of 50 mm. to the center of the stage. The fine adjustment is completely enclosed in the arm, thus preventing mechanical injury and the drying out of the lubricant.

The mirror is 50 mm. in diameter, plane and concave, adjustable on a swinging arm for oblique illumination.

The stage measures 88 x 96 mm.; it has vulcanite top and spring clips.

An iris diaphragm is inserted beneath the stage and may be easily removed when desired. Screw threads for the substage ring are provided.

Coarse adjustment is made by standard rack and pinion; fine adjustment by the Bausch & Lomb improved sensitive lever, which cannot break the cover glass, since the lever is disengaged as soon as the objective comes into contact with the cover. The micrometer screwhead is locked.

The body tube has society screw and graduated draw tube adjustable in a cloth lined sleeve. Low power objectives may be attached to the draw tube.

The European standard size eyepieces are used.

3701. Bausch & Lomb Microscope. Illustration shows BH4 outfit.

BH1r, with 16 mm. and 4 mm. objectives and 7.5 X eyepiece \$27.50

BH2, with 16 mm. and 4 mm. objectives, 7.5 X eyepiece and circular double stoppiece \$1.50

BH3, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces 29.00

BH4, with 16 mm. and 4 mm. objectives, 5 X and 10 X eyepieces and circular double stoppiece 33.00

Substage Ring and Abbe Condenser 120 N. A., extra, \$8.50

Attachable Mechanical Stage, new construction, in velvet lined morocco case, extra, \$17.00.

Each microscope is furnished in a polished mahogany case with lock and key, and with it is also supplied a copy of "Use and Care of the Microscope," by Edward Bausch.

Microscopes.

STAND BB.

The B.B. Microscope is more widely used than any compound microscope of equal class. Its durability, completeness and general excellence commended it to the school, hospital and physician. It is supplied with either screw substage or a swing-out condenser as illustrated. A swing-out condenser will be appreciated in examinations where a quick change from parallel to convergent light is desirable.

The pillar is mounted on large horse-shoe base and made with inclination joint and stop by which the instrument is maintained horizontally when fully inclined.

The arm is grooved to permit the attachment of the mechanical stage, and with a distance of 85 mm. to the center of the stage thus permitting the standard Petri dishes to be used.

The mirror is of 50 mm. diameter, plane and convex and mounted on a swing-out arm for oblique illumination. A click indicates the central position.

The stage is of size 95 x 95 mm. with vulcanite top and spring clips.

The substage is focused by a quick setting screw and consists of a mounting for the Abbe condensers and an iris diaphragm which comes into the plane of the stage. The condenser also has an iris dia-



3701

phragm. Constructed to permit the condenser to be swung out independently (\$5.00 extra), or furnished without this device.

Coarse adjustment is made by standard rack and pinion; fine adjustment by the well known prism form with micrometer screw the head of which is graduated in intervals of 5 microns.

The body tube has set screw and graduated draw tube which slides in a cloth lined sleeve and has threads for the attachment of very low power objectives. European standard size eyepieces are used.

3703 Buick & Lomb Microscope. The physician's standard instrument for bacteriological, blood, urine, spores and all clinical work.

Illustration shows the BB2 outfit with down-swing condenser carrier.

BB1, with 25 mm. and 4 mm. objectives and 7.5 X eyepiece \$26.00

BB2, with 16 mm. and 4 mm. objectives, 7.5 X eyepiece and circular double nosepiece 40.00

BB3, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces 35.00

BB4, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces, and circular double nosepiece 42.00

BB6, with 16 mm. and 4 mm. objectives, 5 and 10 X eyepieces, circular double nosepiece and Abbe condenser 1.20 N.A. 40.00

BB8*, with 16 mm. and 4 mm. dry objectives, 7.5 mm. oil immersion objective, 7.5 X and 10 X eyepieces, circular triple nosepiece and Abbe condenser 1.20 N.A. 75.00

Above quotations are for screw substage with regular swing-out condenser.

For screw substage with down-swing condenser carrier add \$5.00 to price of each outfit.

Attachable Mechanical Stage, new construction, in velvet lined morocco case, extra, \$17.00.

Each microscope is furnished in a polished mahogany case with lock and key, and with it is also supplied a copy of "Use and Care of the Microscope," by Edward Busch.

Microscopes.

STAND BBH.

This instrument is designed for general work as well as for research work of an exacting nature. It is recommended for college and commercial laboratories, the bacteriologist and the physician.

It is the most advanced type of the BB stand, having the new handle arm and the fine adjustment by lever.

The pillar is mounted on a large horseshoe base and provided with inclination joint and stop.

The arm is of the handle type, grooved for the attachment of the mechanical stage and with a distance of 32 mm. to the center of the stage. The fine adjustment is completely encased in the arm and is thus fully protected.

The mirror is of 30 mm. diameter, plane and concave and mounted on a swinging-arm for oblique illumination. A click indicates the central position.

The stage is of size 106 x 115 mm., with vulcanite top, spring clips and black edges. The large size makes it well adapted for 2 x 3 inch slides and Petri dishes.

The substage consists of a mounting for the Abbe condenser and an iris diaphragm which comes into the plane of the stage. The condenser also has an iris diaphragm. The entire substage is focused by a quick acting screw. Coarse adjustment is made by standard rack and pinion; lever fine adjustment with micrometer screwhead graduated in intervals of 5 microns.

The body tube has lock screw, graduated draw tube with threads for very low power objectives. European standard size eyepieces are used.

325. *Bausch & Lomb Microscope, Advanced model for physician and laboratory.*

Illustration shows the BBH with down-swing condenser carrier.

BBH₁, with 16 mm. and 4 mm. objectives and 7.5 X eyepiece . . . \$41.00

BBH₂, with 16 mm. and 4 mm. objectives, 7.5 X eyepiece and circular double nosepiece . . . 45.20

BBH₃, with 16 mm. and 4 mm. objectives and 5 X and 10 X eyepieces . . . 41.00

BBH₄, with 16 mm. and 4 mm. objectives, 5 X and 10 X eyepieces, and circular double nosepiece . . . 47.00

BBH₆, with 16 mm. and 4 mm. objectives, 5 X and 10 X eyepieces, circular double nosepiece and Abbe condenser 1.20 N.A. . . 54.50

BBH₈, with 16 mm. and 4 mm. dry objectives, 19 mm. oil immersion objective, 5 X and 10 X eyepieces, circular triple nosepiece and Abbe condenser 1.20 N.A. . . 80.00

Above quotations are for screw substage with regular swing-out condenser.

For screw substage with down-swing condenser carrier add \$5.00 to the price of each outfit.

Attachable Mechanical Stage, new construction, in velvet lined morocco case extra, \$17.00.

Each microscope is furnished in a polished mahogany case with lock and key and with it is also supplied a copy of "Use and Care of the Microscope," by Edward Bausch.



1705

Microtomes.

We sell almost exclusively the Bausch & Lomb Optical Co.'s Microtomes which are admittedly the standards of the world, and while we illustrate but several of the more simple patterns, it is merely for lack of space, for we are prepared to furnish any style of instrument made by that firm.



- 3711.* Physician's and Laboratory Microtome, with shanked knife of 60 mm. cutting edge. \$32.75

This instrument has been designed for individual and laboratory use to supply the demand for a reliable microtome at small cost. The stand is solid metal, cast in one piece, neatly finished. It has a V slide such as is furnished on the larger and more expensive instruments, and the slide contains a T-slot to which the clamp holder is attached. The object clamp is adjustable in one plane, and can be set for paraffin or celloidin cutting. The feed arrangement consists of an accurately cut micrometer screw having a pitch of .05 mm., with a graduated head divided into 100 parts, so that each graduation has a value of 5 microns. Dimensions: Length, 225 mm.; height, 140 mm. Supplied in strong wooden box with handle.

3712. Laboratory Microtome. Length, 300 mm.; height, 135 mm.; with shanked knife of 125 mm. cutting edge; in strong wooden box with handle. 52.75
- 3713.* Hand Microtome. This convenient little model has an accurate feed, with graduations indicating 25 microns each. 6.00
3714. CO₂/Freezing Microtome, Hardens's, without knife. 20.00

We supply for use in conjunction with this microtome:

- Steel Cylinder filled with one lb. liquid CO₂, with wall straps and wrench. \$20.00
- Refilling Cylinder (all transportation charges at purchaser's expense). 3.50

- 3714a. Ether Freezing Attachment, with double bulb. 8.00

Bacteriological Incubators.



- 3735.* Incubator, small, for physicians and others who desire to make only a small number of cultures at a time; made of polished copper, with a 2-inch water space and covered with an insulating material; provided with a perforated tray, water gauge and stopcock. Inside measurements, 8 x 9 inches \$24 00
3736. " square form, with double wall and water space only; otherwise same construction as our triple wall incubators No. 3738; with one shelf. Inside measurements, 10 x 8 x 8 inches 32 00
3737. " same as No. 3736, but with two shelves and of inside measurements 12 x 10 x 10 inches 37 50
- 3738.* " with triple wall, made of highly polished copper; with conical bottom, having both air and water space all around the outer surface covered with an insulating material to insure an even temperature. It is provided with two doors, the inner one of beveled glass, the outer of copper, double walled, with felt buffers, making it airtight. It has tubes for thermometer, thermo regulator, and for filling water space. The control of the temperature in the air space is effected by a ventilator on top of the cover. The base is made of sheet iron, 18 inches high, having a door with an opening covered with mica for observation of the flame. With one shelf. Inside measurements, 9 x 7 x 7 inches 30 00
12 x 9 x 9 " 37 50
3739. " same as No. 3738, but with two shelves and of inside measurements 14 x 12 x 10 50 00
- Koch Safety Burner, Reichert's Thermo Regulator, Thermometer and Rubber Tubing for use with any of above incubators 8 50

Hot Air and Steam Sterilizers.



3743



3740

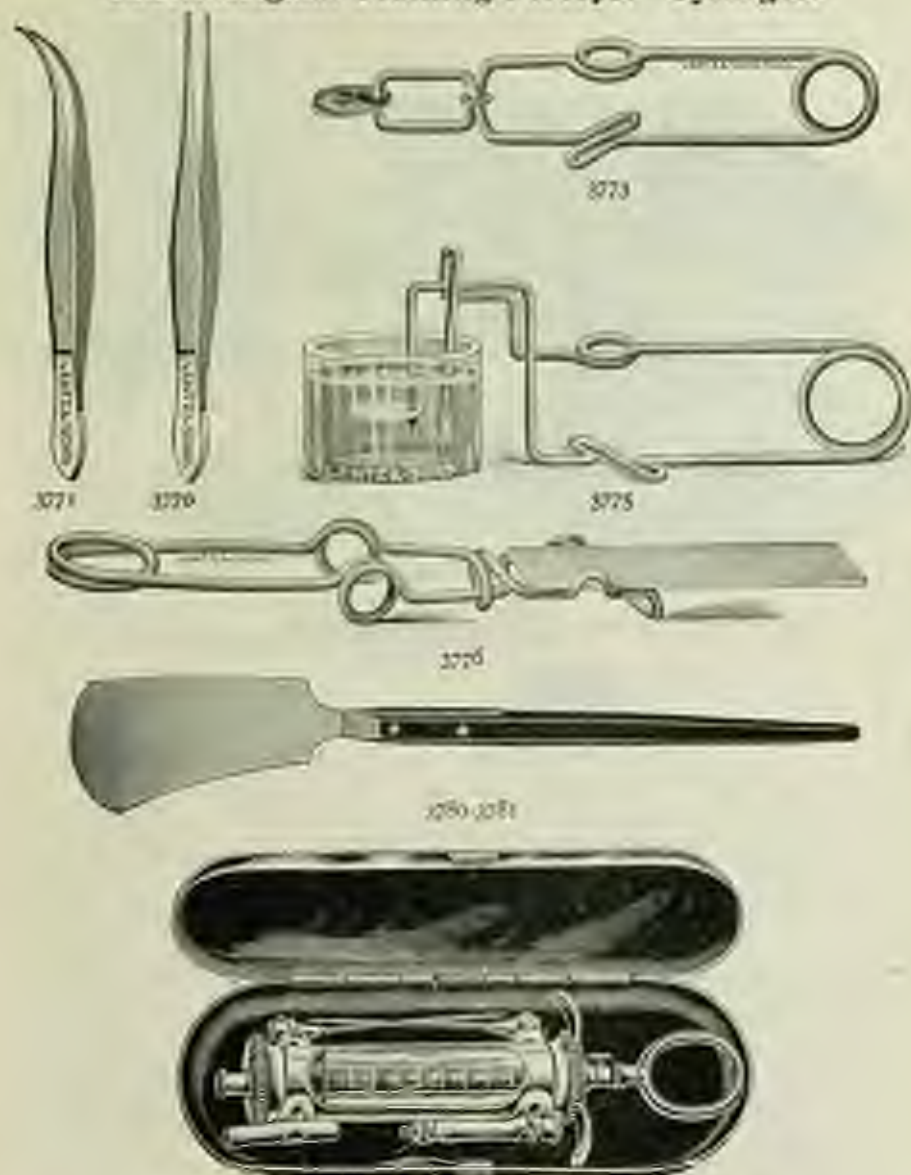


3742

- 3740.* Hot-Air Sterilizer, upright pattern, rectangular, for sterilizing test tubes, flasks, etc., by dry heat. Eyelets provided for hanging on wall. Inside measurements 12 x 9 x 9 inches. \$12.50
3741. " " oblong, without eyelets; otherwise like No. 3740. 9 x 12 x 9 inches. 11.50
- 3742.* Steam " Thermometer, Thermostat and Bunsen Burner for above listed sterilizers, extra. 3.00
- 3743.* " " will maintain an unvarying temperature of 100° C. in all parts of the sterilizing chamber. Heavy tin, copper bottom, 11½ x 10½ inches. All copper, polished. 15.00
3744. " " Bunsen Burner of Health Pattern, square, all copper, double wavy and double doors. 14 x 8 x 8 inches. 35.00
10 x 12 x 12 " 40.00
- 3745.* Autoclav, copper, tin lined; stands 35 lbs. pressure to the square inch; including Bunsen burner with four tubes; 24 x 17 inches. 35.00

All articles illustrated are designated by a *.

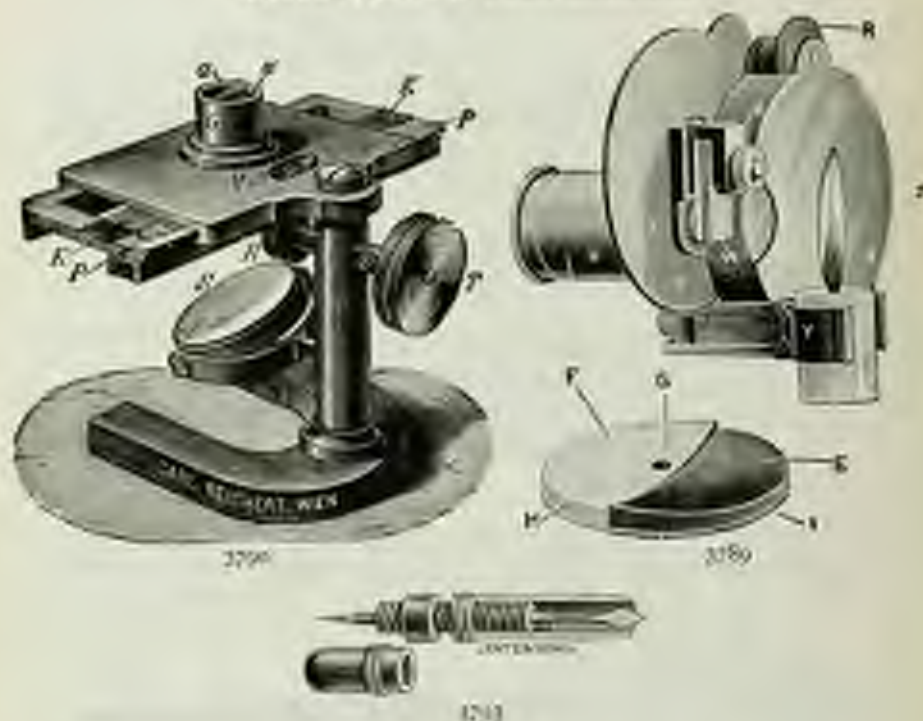
Bacteriological Staining Forceps. Syringes.



3784

3770.*	Forceps, straight, fine points, 4 1/2 inches long, well made and finished	\$0 50
3771.*	" curved, 4 1/2"	60
3773.*	Staining Forceps, Lentz's, brass wire, nickel-plated, coarse run	15
3774.*	" Stewart's, " "	25
3775.*	" Kaffrey's, for staining on the cover or on a Smear dish	25
3776.*	" Bastor's, for staining on slide	30
3780.*	Section Lifter, McPartland's, German silver, heavy at stand	40
3781.*	" Coplin's, hard rubber	35
3783.*	Toxin Syringe, 5 cc., all metal, with metal plunger and two needles	1 50
3784.*	" 5 cc., glass barrel with rubber plunger and two needles	2 50
3785.*	" 5 cc., Lucr's, all glass, with two needles	5 00

Blood-Testing Instruments.



- 3790.* Hemometer, Von Fleischl's. A standard instrument for obtaining the percentage of hemoglobin in the blood, by dilution of a fixed quantity with a measured amount of distilled water and comparing the resulting color with successive parts of a glass wedge of permanent and increasing depth of color. Price, complete in case . . . \$24.00
 Extra. Capillary Tubes, each, \$0.20.
3791. Hemoglobinometer, Gower's. In this instrument a measured amount of blood is taken and diluted with distilled water in a graduated tube until it is of the same color as a tinted tube provided, when the percentage is read off on the scale. Accurate to within about 5 to 10 per cent. In case . . . 2.30
- 3789.* Hemoglobinometer, Dare's. The application of this instrument is based upon the colorimetric principle, but differs from that operative in the instruments of von Fleischl or Gower in the employing of undiluted blood. An illuminated white background renders the leukocytes luminous and not apparent to the eye. A complete examination may be made in one to two minutes . . . 22.50
3792. Blood Lancet, aseptic, Lintz's. The lance is guarded from patient's view; any depth of incision can be obtained and maintained by the locknut; nickel-plated. Can be safely and conveniently carried in the vest pocket . . . 1.00
- 3793.* " " aseptic, Dr. Jason Daland's improvement, broad narrow lance at one end and grooved point at other end, with locknuts, nickel-plated . . . 1.50
3796. " " Moore's, with spring . . . 1.50
3787. " " "Ann Arbor," folding, in chromium handle . . . 50
3788. " " Swan's or "London" . . . 95

All articles illustrated are designated by a +.

Blood-Testing Instruments.



3794



3795



3796-3797

3794* Hemoglobin Scale, Taubert's. Tests are made by comparing blood-stained filter paper with a set of printed color standards. In book form. Complete for 100 tests. \$1.20

Hemacytometer, Thoma-Zeiss. For counting the number and ascertaining the percentage of red or white corpuscles in human blood. A standard instrument, made by Zeiss-Jena. A measured quantity of blood in a capillary pipette is diluted with a normal solution in known proportions; a drop of this mixture is deposited upon a small sunken glass platform, and a cover placed thereon. This platform is ruled into minute squares, and the number of corpuscles in a number of squares are counted with the medium power objective lens of a microscope.

3795* Hemacytometer, with pipette for either red or white corpuscles, in case. each \$9.00

3796* " " pipettes for both red and white corpuscles, in case. 12.00

3797. " Pipette for red corpuscles, 1:100. 2.40

3798. " " white 1:100. 2.40

3800. Cover Glass, either 0.4 or 0.6 mm. thickness. 30

3801. " 0.18 mm. thickness, cemented to heavy circular glass cell. 1.20

3802. Counting Chamber, Thoma's, without case. 5.20

3803. " Zappert's. 5.20

3804. " Zappert-Ewing's, without case. 6.40

3805. " Tuerck's. 7.20

3806. " Neubauer's. 7.20

Cases, 75 cents extra.

All articles illustrated are designated by a *

Magnifiers. Dropping Bottles. Slides. Cover Glasses.



370



366



3751



3752



3753



391



396

366 [*]	Aplanatic Triplet, 3/4-inch, 1/2-inch or 1/4-inch focus	each \$4.00
366 [*]	Magnifier, folding, one lens; 4 1/2 in. diam., 20x; 1 in. diam.	30
366 [*]	" " two lenses; 1 1/2 and 1 1/4 in., 25x; 1 1/2 and 1 in.	50
367 [*]	" " three lenses; 1 1/2, 1 1/4 and 3/4 in., 30x; 1 1/2, 1 1/4 and 3/4 in., 60x; 1 1/2, 1 1/4 and 1 in.	80
369	Simple Microscope, on brass tripod	50
370 [*]	Reading Glass, nickel-plated rim, black handle; 2 in., 80x; 2 1/2 in., \$3.00; 3 in., \$1.50; 3 1/2 in., \$2.00; 4 in., \$2.50; 4 1/2 in., \$3.25; 5 in., \$4.00; 5 1/2 in., \$5.00; 6 in.	6.00
3751 [*]	Dropping Bottle, German form, 30 c.c., 30x; 60 c.c.	35
3752 [*]	" " with rubber nipple, 30 c.c.	35
3753 [*]	Balloon Bottle, with ground glass cap, 30 c.c.	35
3754 [*]	Cedar Oil Bottle, small, is nickel-plated case	1.00
381 [*]	Glass Slides, 3 x 1 in., ground edges, extra thin	per 100 35
382 [*]	" " 3 x 1 in., with concave center	do. 1.80
383 [*]	Cover-Glasses, Squares, No. 1, diam., 15, 16, 18, 19 or 1 in., per half ream	41
384 [*]	" " " " No. 2, " " 15, 16, 18, 19 or 1 in., " "	40
385 [*]	" " " " No. 3, " " 15, 16, 18, 19 or 1 in., " "	41
386 [*]	" " " " No. 4, " " 15, 16, 18, 19 or 1 in., " "	41
387 [*]	Cabinet, portable, for 72 slides, with 12 trays	2.50
388 [*]	" " " " for 432 slides, with 36 trays, and with lock and drawer	10.00
389 [*]	Boxes for 25 slides, Pillbury's	per. each per box 1.50

All articles illustrated are designated by a *

Microscopic Stains, Dry.

FROM THE LABORATORY OF DR. G. GRÜBLER & CO., LEIPZIG.

Anilin I	1 gram	\$2.50
" II	1 "	1.25
" II, Eosin	1 "	1.88
Bismark Brown	10 "	.20
Eosin, Yellowish, soluble in water	10 "	.30
" Blue	10 "	.25
" soluble in alcohol	10 "	.30
" Methylene Blue, Jenner-May-Grünwald's	10 "	1.05
" Leishman's	10 "	3.50
Fuchsin, for bacilli	10 "	.25
" S. (Acid Fuchsin)	10 "	.30
Gentiana Violet	10 "	.25
Hematoxylin	10 "	.65
Jenner's Stain	10 "	1.65
Methylene Blue, for bacilli	10 "	.30
Romanowsky's Stain	10 "	3.50
Wright's Stain	1 "	.40

Staining Material, in Solution.

MADE FROM GRÜBLER'S STAINS.

Aniline Water Gentian Violet	1 ounce	.25
Anilin II	1 "	.25
Biondi-Ehrlich-Heidenhain's Triple Mixture	1 "	.30
Carbol-Fuchsin, Ziehl-Nielsen's	1 "	.25
Ehrlich's Trisid Solution	1 "	.50
" Triple Mixture	1 "	.60
Eosin	1 "	.25
Gabbet's Solution	1 "	.25
Giemsa's Stain	1 "	.25
Goldhorn	1 "	.50
Hematoxylin, Delafield's	1 "	.40
Jenner's Concentrate of Methylene Blue	1 "	.30
Leishman's Blood Stain	1 "	.30
Loeffler's Methylene Blue	1 "	.25
Toisson's Solution	1 "	.25
Wright's Stain	1 "	.40

While we list only a limited number of the more frequently used stains, we carry in stock and can furnish immediately any Grüber's Stains desired.

We also carry a complete line of the Barreghs, Wellcome & Co., London, Dry Stains in Tablet Form. Booklet on application.

When ordering to be sent by mail add 5c. for postage on Dry Stains and 12c. for container and postage on Solutions.

Mounting Media.

383. Canada Balsam, natural, paper filtered	per 20 c.c. tube	\$2.25
382. " dissolved in Xylol	" "	.25
384. Cellodis, Schering's	per ounce	.00
385. Cedar Oil	" "	.40
386. Paraffin, melting point 45° C.	per pound	.25
387. " 55° C.	" "	.25
388. Agar-Agar, best quality, in sheets	" "	1.00
389. Gelatin, gold label	" "	.75

SECTION IX. Obstetrical Instruments. OBSTETRIC FORCEPS.



3911

All Obstetric Forceps are of our own manufacture, hand-forged, and priced as low as superior quality instruments can be sold for.

3900*	Obstetric Forceps, Hodges	\$1.00
3901*	" " Wallace's	50c
3902	" " Comstock's	6.00
3903	" " Bedford's	6.00
3904	" " Butler's	6.00
3905	" " Simpson's, short	3.50
3906*	" " " long	5.20
3907	" " " with axis-traction rod and tapes, all metal	9.50
3911*	" " " modified by E. P. Davis, with axis-traction rod and tapes, all metal	10.50
3912	" " " mod. by E. P. Davis, without traction rod	6.50
3908*	" " Elliot's, with adjustable set screw handle	5.00
3909*	" " Davis'	6.00

Obstetric Instruments.

OBSTETRIC FORCEPS.

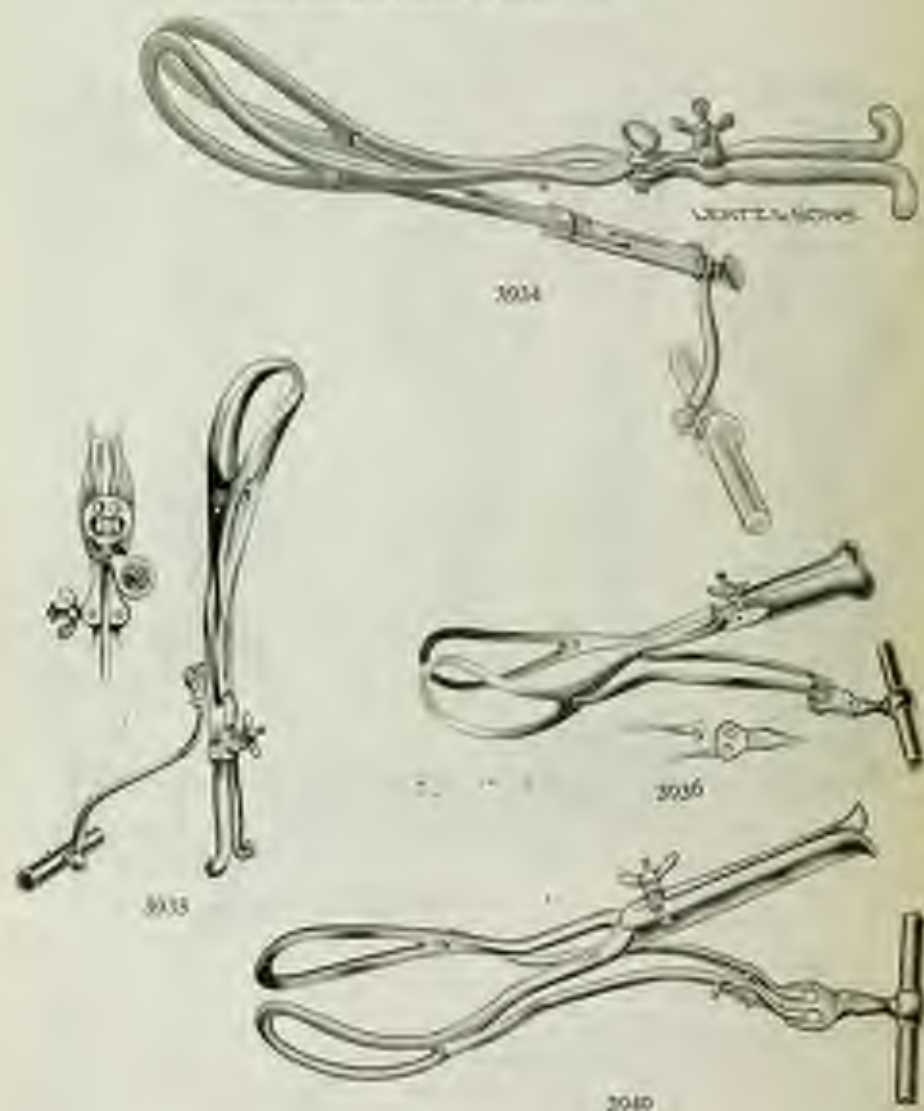


3915.	Obstetric Forceps, Biscoe's modified Simpson's	\$6.50
3916.*	" " " Parvin's modified Davis'	5.00
3917.*	" " " with axis-traction rod and tapes	10.00
3918.*	" " " Benjamin's	6.00
3919.*	" " " Jenks, long	6.00
3920.	" " " " short	5.00
3921.*	" " " Sawyer's, long	5.00
3922.*	" " " " short	4.50
3923.*	" " " Hale's, short	4.50
3924.	" " " " " with Hurst's modified handle	5.00
3925.	" " " Braun's modified Simpson's	6.50
3926.	" " " Kewey's	5.50
3927.	" " " McLean's, with solid blades	7.00

*All instruments illustrated are designated by a *.*

Obstetric Instruments.

OBSTETRIC FORCEPS, AXIS-TRACTION.



3934.*	Axis-Traction Obstetric Forceps, Tarnier's	\$15.00
3935.*	" " " " Jewett's	15.00
3936.*	" " " " Simpson's latest	18.00
3937.*	" " " " Milne Murray's	12.00
3938.	" " " " DeWeese's	15.00
3939.	" " " " Lusk's	20.00
3938.	" " " " Pelwarsch's	10.00
3939.	Rods, Reynolds', applicable to most any forceps	2.50
3939.	Handle Clamp, Reynolds', for locking handles; used in conjunction with axis-traction rods	1.50

Automatic Couveuse.

3955.* INFANT INCUBATOR

For the Nurture of Prematurely Born or Weak Infants..... \$150 00



Constructed entirely of steel, aluminum braced. The compartment is 26 inches high, 21 inches broad and 22 inches deep; has on one side a sliding window and in front a double glass door set in nickel-plated frames. It is provided with a nickel-plated swinging wire mattress, underneath of which pass the tubes carrying the heated as well as fresh air. There is also a tray for holding water to impart the necessary moisture to the atmosphere, the condition of which is indicated by a hygrometer.

The air is heated by a gas burner at side of the incubator. The temperature is regulated by an electric thermometer registering at 90° F., actuated by four dry cells. In the cylinder extending over the top there is a fan which is set in action by the change of hot and cold air and withdraws any bad air. A chart file is fixed over the top of the compartment.

The incubator rests on a steel frame with shell. Total height of frame and compartment 50 inches, of the ventilating cylinder 22 inches.

RENTAL.

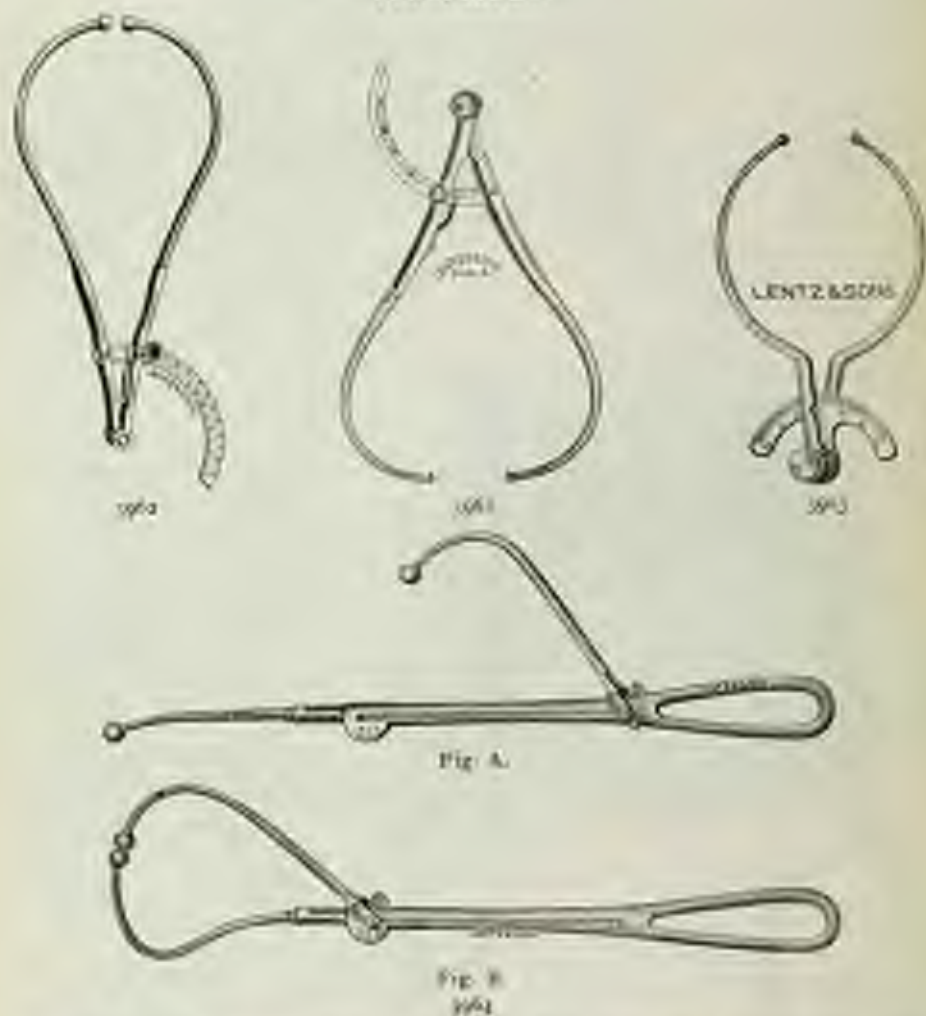
For emergency cases within a reasonable distance from our establishment, where an infant incubator is required for a short period, we accommodate interested parties with the rental of an apparatus constructed of wood set on an iron stand, similar to No. 3955, which we keep on hand, set up ready for use.

Rental for first week, \$10.00; for every subsequent week or part of week, \$5.00; payable in advance. All transportation charges extra.

Illustrated descriptive circular on application.

Obstetric Instruments.

PELVIMETERS



3960.	Pelvimeter, Collyer's, plain, nickel-plated.	\$4.00	steel, fine, nickel-plated.	\$5.75	
3961.*	"	Martin's.	"	"	6.00
3962.*	"	Tarkie's modified Martin's.	"	"	7.50
3963.*	"	Bowditch's.	"	"	7.00
3964.*	"	Hirsch's, with extra tip for measuring outer surface:	steel, fine,		
		nickel-plated	"	"	10.00

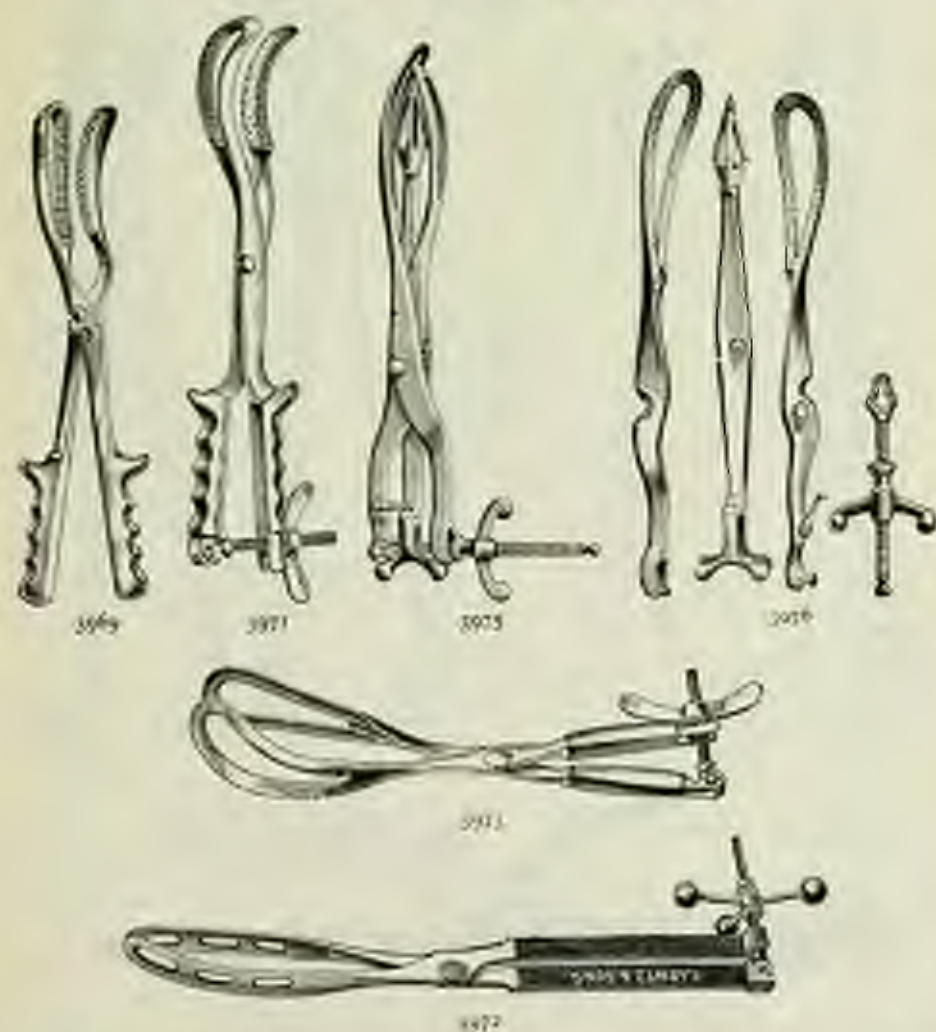
Fig. A, showing the instrument open, as used for measuring distance between outer surface of symphysis, just below the upper edge, and the promontory of the sacrum.

Fig. B, showing the instrument adjusted with a curved tip inserted, for measuring the thickness of the upper part of symphysis.

*All instruments illustrated are designated by a **

Obstetric Instruments.

CRANIOCLASTS, CEPHALOTRIBES, ETC.

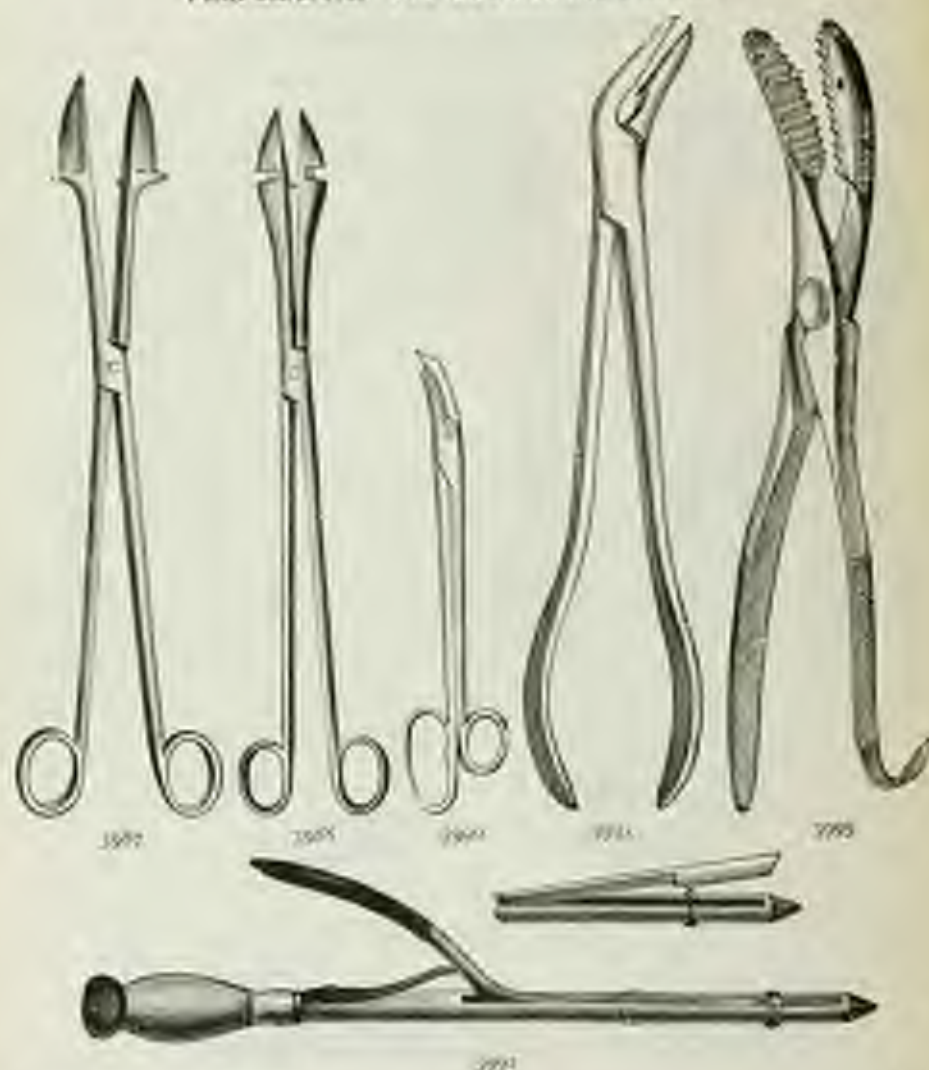


3969.*	Cranioclast, Simpson's	.....	\$7.00
3970.	— Emson's	.....	10.00
3971.*	Cephalotribe, Braun's	.....	18.00
3972.*	— Hodge's	.....	15.00
3973.*	— Leuk's	.....	25.00
3974.	Axard's, combined Cranioclast and Perforator, three parts	.....	20.00
3975.*	Basiotribe, Tarnier's	.....	25.00
3976.*	— showing separate parts	.....

All instruments illustrated are designated by a *.

Obstetric Instruments.

PERFORATORS AND CRANIOTOMY FORCEPS.

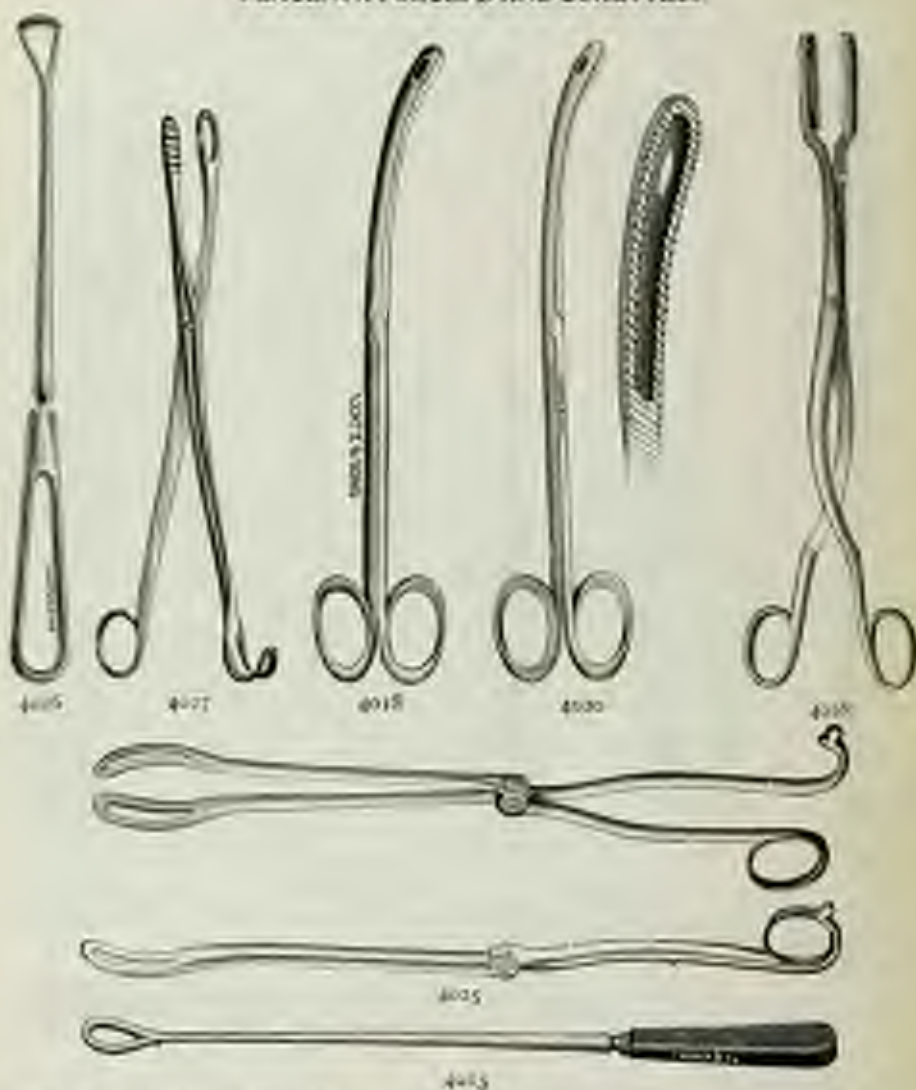


1987	Perforator, Bedford's	\$2.00
1988	" Eliot's	1.00
1989	" Senzelle's	1.00
1990	" Simpson's	2.00
1991	" Nageli's	3.00
1992	" Hodge's Schaefer	4.00
1993	" Holmes'	4.00
1994	" Thomas', metal handle	0.00
1995	Craniotomy Forceps, Meigs', straight or curved, with French joint	1.00
1996	" " " " " " " " " " " "	1.50
1997	" " " " " " " " " " " "	1.00

(All instruments illustrated are designated by a *.)

Obstetric Instruments.

PLACENTA FORCEPS AND CURETTES.



4015 *	Placenta Curette,	Mund's, 3 sizes, metal handle	each	\$1 75
4015 *	"	Hill's, 2 sizes extreme end sharp, steel	"	4 00
4017 *	"	Franklin's, 2 size, solid wire loop	"	2 25
4015 *	Placenta Forceps,	Bald's, serrated blades	"	2 00
4009 *	"	Bald's, solid,	"	2 00
4009 *	"	Parry's	"	2 00
4001 *	"	Christie's	"	2 80
4003 *	"	Mund's, with large fenestra	"	2 50
4004 *	"	Parry's	"	2 50
4005 *	"	Lucas's	"	4 00
4007 *	"	Combined Hook and Curette	"	2 50
4005 *	"	and Basilestomy Forceps, Bennett's	"	2 75
4009 *	"	Orin	"	2 00

All instruments illustrated are designated by a *

Obstetric Instruments.

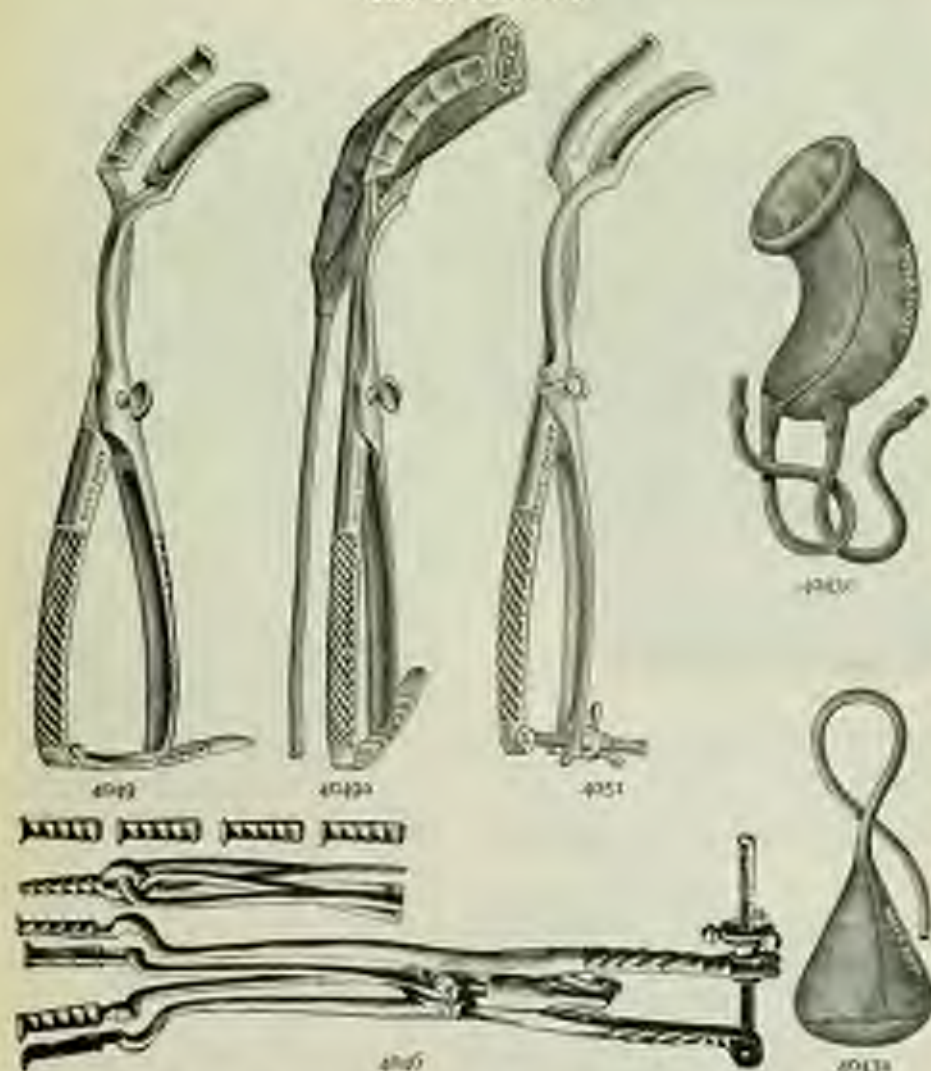


4012*	Pelvisometer, Carsten's modification of Collyer's	each	\$ 2 75
4013*	" Parabeuf's, for internal measuring	each	10 50
4014*	" Skutsch's, for ante-external measurements	each	10 00
4015*	Placenta Curette, McDade's, Spinal, with fluted edge, or plain edge, each	each	1 75
4016*	" gaging	each	5 00
4017*	Perineal Protector, Tudor's, metal	each	85
4018*	" Brown's, pliable metal, two sizes	each	1 25
4019*	Needle, Doederlein's, for paracentesis	each	3 00
4020*	Bonnie, Cylindrical, gum elastic web, for inducing premature labor, per dozen, \$5.00	each	40
4021*	Coed Carrier, Beane's	each	75
4022*	" Hirt's, steel, hook shaped, with eye	each	1 50
4023*	Obstetric Phantom, Schultze's	each	25 00
4024*	" Rubin and Pinard's, with doll	each	150 00
4025*	Artificial Foetus, plain, leather covered	each	12 00
4026*	" Schultze's	each	15 00

All instruments illustrated are designated by a *

Obstetric Instruments.

CERVIX DILATORS.



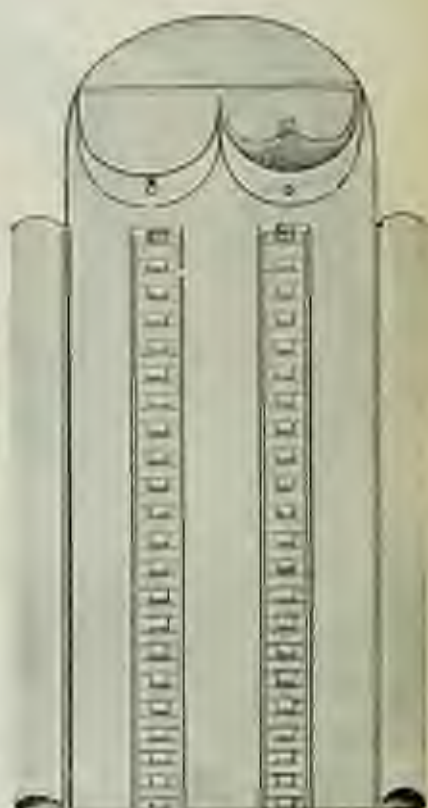
4046*	Cervix Dilator, Boss's, four branches and set of two	252 00
4047.	Higgins' modification of Boss's, five branches	32 00
4048.	Marell's, four	32 00
4049*	Richard Norris', with corrugated blades and catch	12 00
4049a.*	showing how rubber bag can also be held for introducing urine.	
4051.*	John C. Hirst's modification of Norris', with smooth blades and arrow for gradual dilatation	12 00
4053	de Seignoux's, four adjustable branches	35 00
These instruments are intended for rapid dilatation of the cervix in cases of eclampsia.		
4043a.*	Colpeurynter, Voorhees', pear shaped each, 90c.; set of four	3 00
4043b.	extra large each	1 25
4043c.*	Pomeroy's, three sizes - small, \$4 00; medium, \$5 00; large	5 75

All articles illustrated are designated by a *.

Obstetric Instruments.



4055



4061-4062



4061-4062

- 4055* Obstetric Set No. 1 contains: Hodge's Forceps; Elliot Hook and Crochet; Placenta Forceps; Vectis; Perforator; Meigs' Craniotomy Forceps. In a roll-up leather pouch, chamamois lined . . . \$26.50
In 16-inch fine quality bag, with bottles . . . 28.00
4057. Obstetric Set No. 2; contains: Simpson's Forceps; Elliot Hook and Crochet; Smellie's Perforator; Placenta Forceps. In a roll-up morocco pouch, chamamois lined . . . 24.00
In 16-inch fine quality bag, with bottles . . . 25.00
4059. Obstetric Set No. 3; contains: Elliot's Forceps; Vectis; Smellie's Perforator; Elliot Hook and Crochet; Meigs' Craniotomy Forceps; Bond's Placenta Forceps; Female Catheter. In a roll-up morocco pouch, chamamois lined . . . 18.25
In 16-inch fine quality bag, with bottles . . . 19.75
4060. Obstetric Pouches, rolling, best morocco leather, lined with chamamois skin . . . 4.00
- 4061* Instrument Rolls, bound washable canvas, with one pocket and either single or double row of loops
No. 1, 12x23 inches, 13 loops; single row, \$1.00; double row . . . 1.25
No. 2, 12x20 " 12 " " " 1.00; " " 1.05
No. 3, 12x23 " 21 " " " 1.10; " " 1.25
No. 4, 15x23 " 11 " " " 1.10; " " 1.05
No. 5, 15x20 " 17 " " " 1.25; " " 1.50
- 4062* Instrument Rolls, bound washable canvas, with two pockets and double row of loops
No. 13, 14 1/2 x 32 inches, 22 adjustable loops . . . 1.95
No. 20, 15 1/2 x 35 " 20 " " " 1.50

(All articles illustrated are designated by a *.)

Obstetric Instruments.

SATCHELS.



4065. Obstetrical and Gynecological Instrument Bag.

This illustrates the standard shape of this convenient form of satchel. It is made of the best quality black grain leather, chemically lined. The gasket, where it is fastened to the frame, is diamond shape, which allows the bag to remain open at any angle without a metal stay or fastener. It has a leather covered high grade steel frame and nickel-plated brass lock and side catches.

The interior is fitted with five two-ounce wide-mouth bottles with rubber stoppers, held in loops as shown in illustration; also with a pocket at opposite side extending the full length of the bag.

13 inches long	\$5.40	16 inches long	\$5.75	17 inches long	\$6.00
15 " "	5.50	18 " "	6.00	19 " "	6.35

If desired without bottles or loops, deduct .50c from these prices.

4070. Surgeon's Emergency Cabin Bag.

A wide and high model. Quite a favorite. A most suitable bag for railroad and general emergency work.

It is made of best black grain leather, hand stitched to a strong leather covered steel frame, with gilt lock and snap catches. The interior is lined with smooth leather.

It is provided on one side with five adjustable loops; the opposite side has a full length pocket, and there is also a pocket at one end. The lids are fitted with loops to hold small instruments.



14 inches long, grain leather	\$11.25
15 " " " "	11.75
16 " " " "	12.25
17 " " " "	12.75
18 " " " "	13.25

Obstetric Instruments.

SATCHELS.



4066-4067



4071

4066.⁷ Physician's and Surgeon's Instrument Cabin Bag. Our most popular and best selling bag. It is made of best black grain leather, leather lined, and hand stitched to a leather-covered high-grade steel frame, with nickel-plated brass lock and end catches. It is provided on one side with five two-ounce wide-mouth bottles with rubber stoppers, held in place by adjustable loops; the opposite side has a pocket extending the full length of the bag; the lids are fitted with loops to hold instruments.

12 inches long, \$5.00; 14 inches long, \$6.20; 16 inches long, \$7.50
 18 " " " 8.75; 20 " " " 10.00
 22 " " " 11.25; 24 " " " 12.50

4067.⁸ Physician's and Surgeon's Instrument Cabin Bag. Same shape as No. 4066. Made of black grain leather, riveted to a leather-covered steel frame, with nickel-plated lock and end catches. The inside is lined with black rubber cloth so it may be cleaned with a moist sponge or cloth. It contains on one side five two-ounce wide-mouth bottles with rubber stoppers, held in adjustable loops; the opposite side has a pocket extending the full length of the bag; the lids are fitted with small loops to hold instruments.

12 inches long, \$6.00; 14 inches long, \$7.25; 16 inches long, \$8.50
 18 " " " 9.75; 20 " " " 11.00
 22 " " " 12.25; 24 " " " 13.50

4071.⁹ Physician's Surgical and Obstetrical Bag. Differs from similar ones principally in its deep form. It is six inches wide at bottom and narrows up to the frame. Height from bottom of bag to top of frame eight inches. The shape is very neat and renders it very convenient for use as a general utility bag. Made of fine black grain leather, with nickel-plated lock and catches, and leather lined. It contains five two-ounce wide-mouth bottles with rubber stoppers, held in place by adjustable loops.

12 inches long, \$5.25; 14 inches long, \$6.50; 16 inches long, \$7.75
 18 inches long, \$9.00; 20 inches long, \$10.25
 If desired without bottles, deduct 25 cents.



4071a

4071a.⁹ The "Boston" or General Utility Bag. A very popular pattern, and very handy for general use. It is made of soft, pliable, durable black or russet hand-grained leather; lined with either canvas or leather; has one pocket, no loops for bottles, leather-covered frame, secured with strap.

With canvas lining: 12 inches long, \$4.65; 14 inches long, \$5.10; 16 inches long, \$5.55; 18 inches long, \$6.00; 20 inches long, \$6.45.

With leather lining: 12 inches long, \$5.65; 14 inches long, \$6.10; 16 inches long, \$6.55; 18 inches long, \$7.00; 20 inches long, \$7.45.

⁷Note.—The sizes of all our bags indicate the length of the frame.

Obstetric Instruments.**SATCHELS AND STERILIZERS.**

4068-A. "Cabin Shape" Physician's and Surgeon's Instrument or Obstetrical Bag with Compartment for Sterilizer.

This latest style of satchel for the busy practitioner is constructed of the best quality of black walrus grain leather, lined to a leather covered steel frame, with nickel-plated linings; the lining is water-proof, permitting thorough cleansing.

The upper compartment is 6 1/2 inches wide and 6 inches deep; contains five two-ounce wide-mouth bottles with rubber stoppers, held in adjustable loops; the lids are fixed with small loops to accommodate small instruments.

The lower compartment is separated completely from the upper one by a firm and well secured bottom; in addition there is a steel stay provided inside the bag which makes the lower portion perfectly secure from any undue weight contained in the upper one. This lower compartment opens at one end to receive a compact sterilizer; it is closed by fast against dust or dampness. Made in two sizes:

16 inches long (without sterilizer)	\$10 45
18 "	11 30

4068-B. "Cabin Shape" Instrument or Obstetrical Bag with Compartment for Sterilizer.

This bag is in nearly all respects the same as No. 4068-A. It has a few light weight English steel frame, hand attached to the leather, nickel-plated trimmings, and is leather lined. Made in two sizes:

16 inches long, sterilizer not included.	\$12 25
18 "	13 60



4068-C. "Oxford Shape" Sterilizer Bag.

Latest model and very desirable. Quality of leather, frame and lining, also lower compartment, same as No. 4068-A. Made in two sizes:

16 inches long, sterilizer not included	\$9 25
18 "	10 35

Sterilizers Suitable for Carrying in Above Bags, see page 189.

Obstetric Instruments.

SATCHELS, BABY SCALES, TRACTORS.



- [illegible]

SECTION X. Gynecological Instruments.

LEG HOLDERS.



4075



4079



4080



4080

4075.* Leg Holder, Clover's Improved, Portable

\$ 7.00

Consists of a metal rod sliding within a hollow one, for the purpose of rendering it longer or shorter, and held at the desired distance by a spring catch. At each end of the rods are attached circular metal bands well padded and covered with leather, which buckle around the limbs. A broad band which is carried behind the patient's neck has strong leather straps, which buckle to the rod.

4079.* Leg Holder, Kelly's

\$ 1.50

4080.* " " Robb's

1.00

4081.* " " legging pattern, Shiller's

2.00

These Leg Holders are made of polished Canton flannel, with snap catch, buckles and rings for adjusting to any desired length. They can be washed and sterilized. Being light, can be conveniently carried in operating bag.

All instruments illustrated are designated by a *

Gynecological Instruments.

SPECULA.



4082



4089



4091



4094



4090



4095

4082*	Speculum, Sims', made of wrought metal, six sizes	each \$1.00
4084	" " very light and narrow, for removing stipes after operation	1.45
4085	" " Hibern's modification	2.25
4086	" " Boisson's	1.50
4087	" " Munde's	1.50
4088	" " Dawson's, with divided blade	3.00
4091*	Ausant's, weighted, self-retaining	1.00
4094*	Garrigue's,	1.00
4095*	Herosin's,	1.00
4090*	Edebol's, self-retaining	1.25
4096*	" Miller's modification	1.25
4091	" Tappin's, narrow	1.00
4092	Weight for Kuehnb's or Miller's Speculum	.75

Gynecological Instruments.

SPECULA.



4115



4116



4117



4118



4119

4115.*	Spears' Graves' latest pattern, 180-2018, convertible into a Sims' speculum	\$1.35
4116.*	" converted into a Sims' "	
4117.*	" operating with short blades	1.50
4118.*	" with extra long blades	2.00
4119.*	Brower's, convertible into a Sims' "	1.75
4120.	Steele's " " "	1.75
4121.	Hale's, bivalve	2.00
4122.	Palmer's, trivalve	1.75
4123.	" trivalve	1.75
4124.	Miller's, bivalve	1.50
4125.*	Langen-Miller's	1.75

All instruments illustrated are designated by a *.

Gynecological Instruments.

SPECULA.



4126



4132



4130



4127



4131

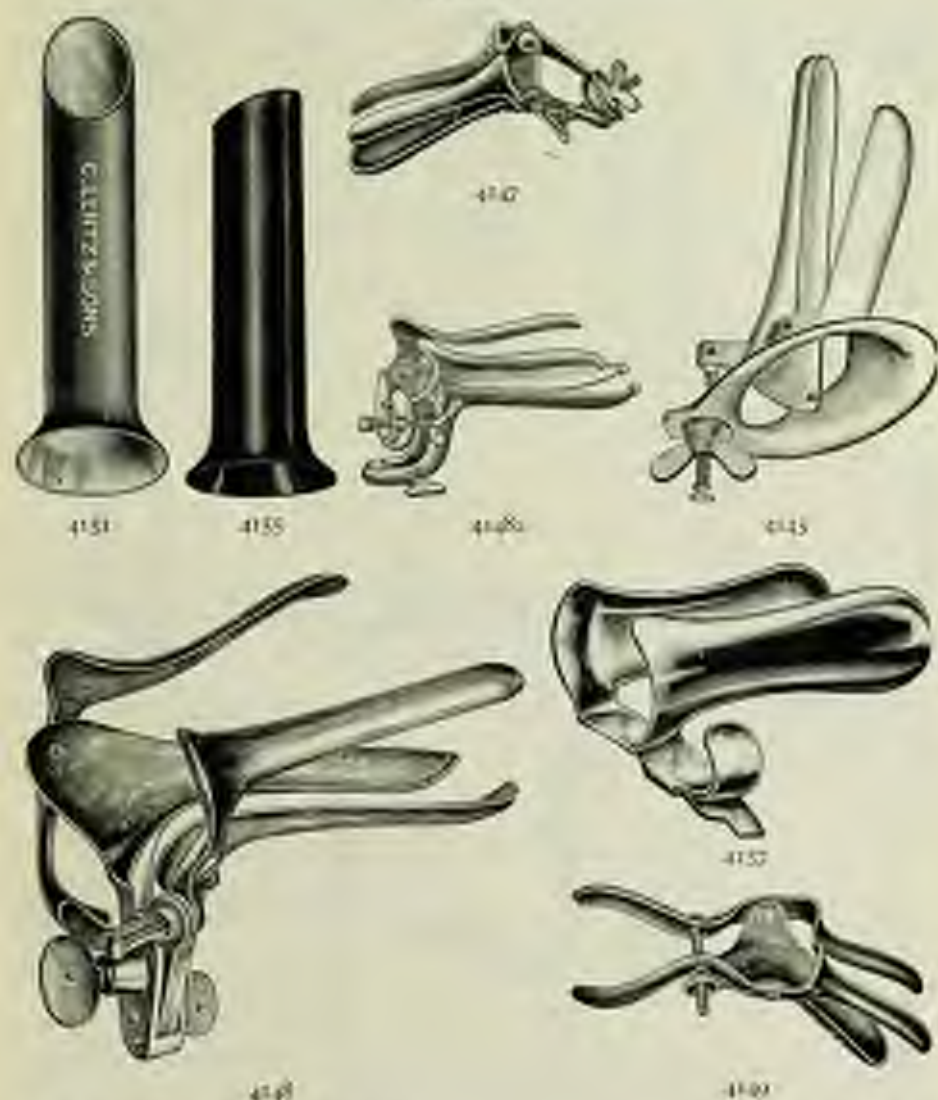


4129

4128.*	Speculum, Goodell's	regular, \$3.00; extra quality and finish \$4.20	
4129.	"	Pier's modification of Cusco's, two sizes	each 3.00
4130.*	"	Collis's, two sizes	1.65
4131.*	"	Talley's, irrigating, modification of Collis's	1.75
4132.*	"	Cusco's, virgin size, with stationary handle	1.75
4133.*	"	" regular " folding	2.00
4134.	"	" improved " "	2.00
4135.	"	Abbott's, levator, with steel blades	4.25
4136.	"	Taylor's	2.50
4137.	"	Reid's	4.50
4138.	"	Roth, wire	1.00
4139.	"	Labat	1.25
4140.*	"	Dr. Wilson's, parallel blades	1.50

Gynecological Instruments.

SPECULA.

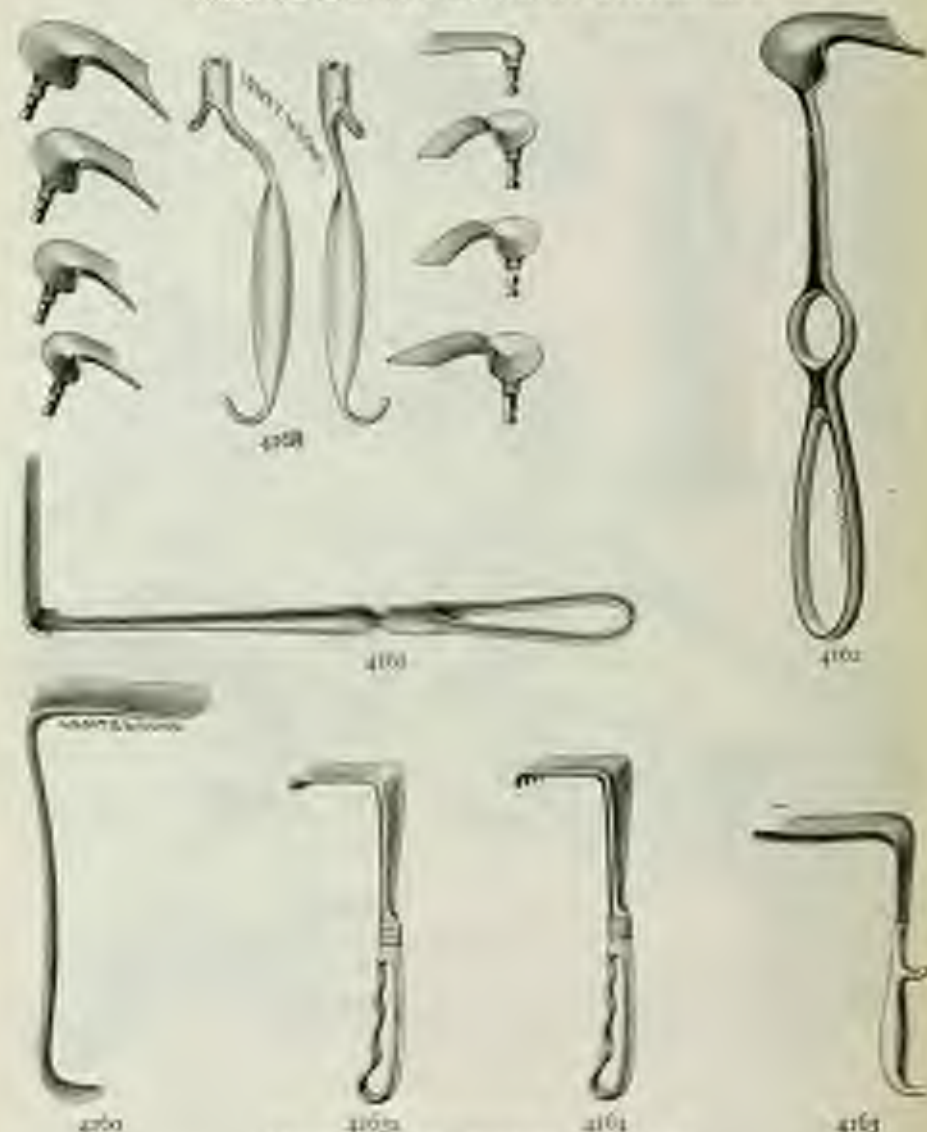


4143*	Speculum.	Higbee's, three sizes	each \$1 65
4146	"	Howard's	1 75
4147*	"	Nott's, trivalve, three sizes	each 1 65
4148*	"	Ailby's, four bladed, lower blade may be dilated	1 00
4149*	"	" "Ball Bearing," four bladed, lower blade may be dilated	1 00
4150*	"	Nelson's, trivalve	2 00
4151*	"	Coedier's, adjustable to three sizes	2 25
4152	"	Ferguson's, glass, reflecting, black outside, six sizes	60
4153	"	" plain crystal glass, six sizes	40
4154	"	" milk white glass, three sizes	50
4155*	"	" hard rubber, four sizes	each, \$1 00; set of four 2 50
4157*	"	Sparks', automatic adjusting and locking	2 50

All instruments illustrated are designated by a 1.

Gynecological Instruments.

VAGINAL AND HYSTERECTOMY RETRACTORS.



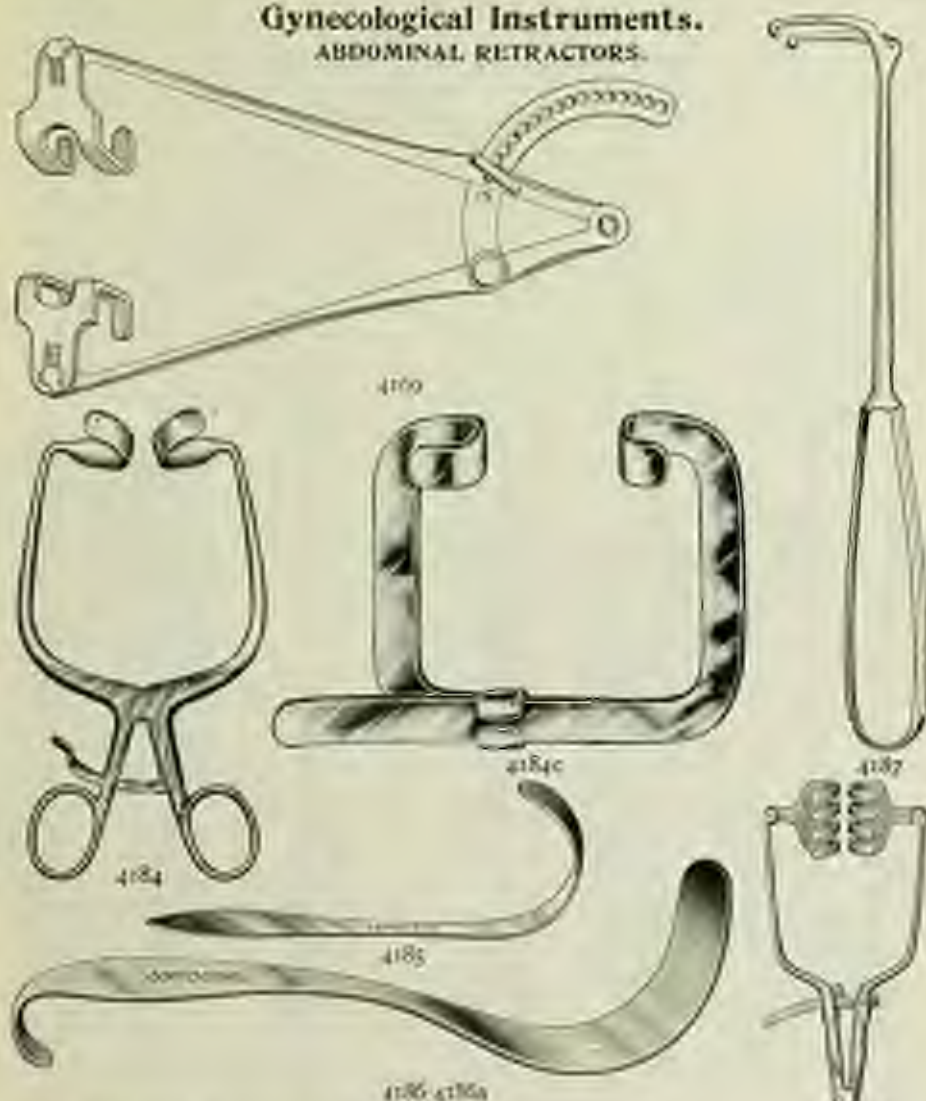
Vaginal and Hysterectomy Retractors.

4151.	Eastman's, 100 lines	each	\$1.25
4152.*	Jackson's.		1.00
4153.*	Robb's, steel, three sizes	each, \$1.50, \$2.75	1.00
4154.*	Martin's, steel blade		2.25
4155.*	Doyen's, six sizes: 2½ in. to 4½ in. long, 1½ and 2½ in. wide	each	2.00
4156.*	Doyen-Kelly's, six sizes: 2½ to 4½ in. long, 2½ and 3½ in. wide		2.50
4157.*	Kelly's, with prongs, four sizes, 4½ to 11½ in. wide		2.00

Vaginal Specula and Retractors.

4158.	Boreman-Spence's, set of five blades, with two handles	2.00
4159.*	eight "	10.50

For Other Retractors, see pages 46 and 47.

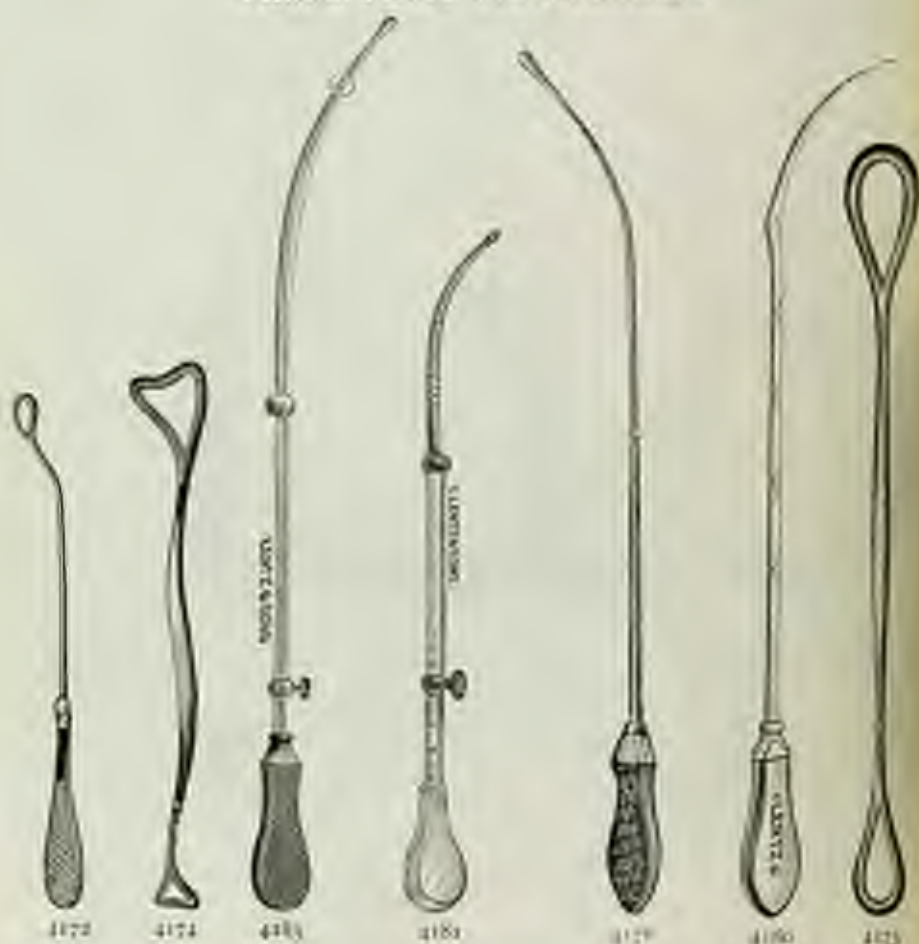
Gynecological Instruments.**ABDOMINAL RETRACTORS.**

4169*	Abdominal Retractor,	Ashlee's, self-retaining, removable blades	\$6.00
4170*	"	Kelly's, automatic, four pronged	6.00
4171*	"	Bryen's, self-retaining, with two blades	15.50
4184*	"	Simpson-Mayo's, self-retaining, large	7.50
4184a	"	Simpson-Mayo-Collin's, self-retaining, three blades	9.00
4184b	"	Sparks', self-retaining, three blades	5.00
4184c*	"	" two	4.00
4185*	"	Deaver's, large, straight handle, per pair	1.25
4186*	"	" extra large, one inch blade, per pair	3.00
4186a*	"	" two inch blade, per pair	3.50
4186b	"	" one inch blade, with pelvic curve, per pair	1.50
4187*	"	Ashlee's, two prongs, probe ends	2.00
4188	"	J. R. Taylor's, self-retaining, two pairs of solid blades	15.00
4189	Rubber Darts with Spring,	J. R. Taylor's, for isolating the intestines from field of operation, 12, 14 and 15 in. long	1.50

For Other Retractors, see pages 46 and 47.

Gynecological Instruments.

UTERINE SOUNDS AND DEPRESSORS.



4172.*	Vaginal Depressor, Sims', single, with spiral handle	\$5.75
4173.*	" " double	80
4174.*	" " Nat's, "	80
4175.*	" " Huter's, "	80
4176.*	Uterine Sound, Sims', plain, nickel-plated	45
4177.	" " fine, "	50
4178.	" " graduated in inches and centimeters	1.00
4179.	" " Simpson's, plain, nickel-plated	40
4180.*	" " fine	50
4181.*	" " Jenks', special, with slide, metal handle	1.00
4182.	" " Fitch's, with slide	80
4183.*	" " Godding's, " nickel-plated, \$2.00; otherwise	1.75

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

UTERINE PROBES AND APPLICATORS.



4203-4204	Uterine Sound, Bottle's, combined set of sound, silver probe and sponge holder in one handle	\$ 25
4205	" " Chapin's, combined set of Sims' and Simpson's sounds and silver probe	25
4206*	Probe, Sims', silver	75
4207	" " aluminum	50
4208*	" " Thomas' hard rubber, 36.; whalebone	50
4209*	" " Jeau's, spiral, metal handle	85
4210*	Applicator, aluminum, either flat or twisted end, in handle	20
4211*	" " " " without handle, do.	25
4212*	Set-screw Handle for Uterine Applicators, fig. 4-25 plain, 25c.; fine	35
4213*	Uterine Applicator, new pattern, with two nails to each	1.00
4214*	" " Emmet's, pure silver, with slide	1.00
4215*	" " Nolle's, whalebone	50
4216*	" " metal, 175 in. long 75 dozen in box	25
4217*	" " " " 250 in. long 250 dozen in box	1.25

Gynecological Instruments. CERVIX SPECULA AND APPLICATORS.



4207.*	Cervical Speculum or Dressing Packer, Darmack's, two sizes, each	\$1.00
4208.	" " " " " "	.00
4210.*	" " " " " "	.00
4211.*	" " " " " "	.00
4212.*	" " " " " "	.00
4213.*	" " " " " "	.00
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4297.*	" " " " " "	.00
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4299.*	" " " " " "	.00
4300.*	" " " " " "	.00

All instruments illustrated are designated by a *.

Gynecological Instruments.

INTRA-UTERINE SYRINGES AND DOUCHES.



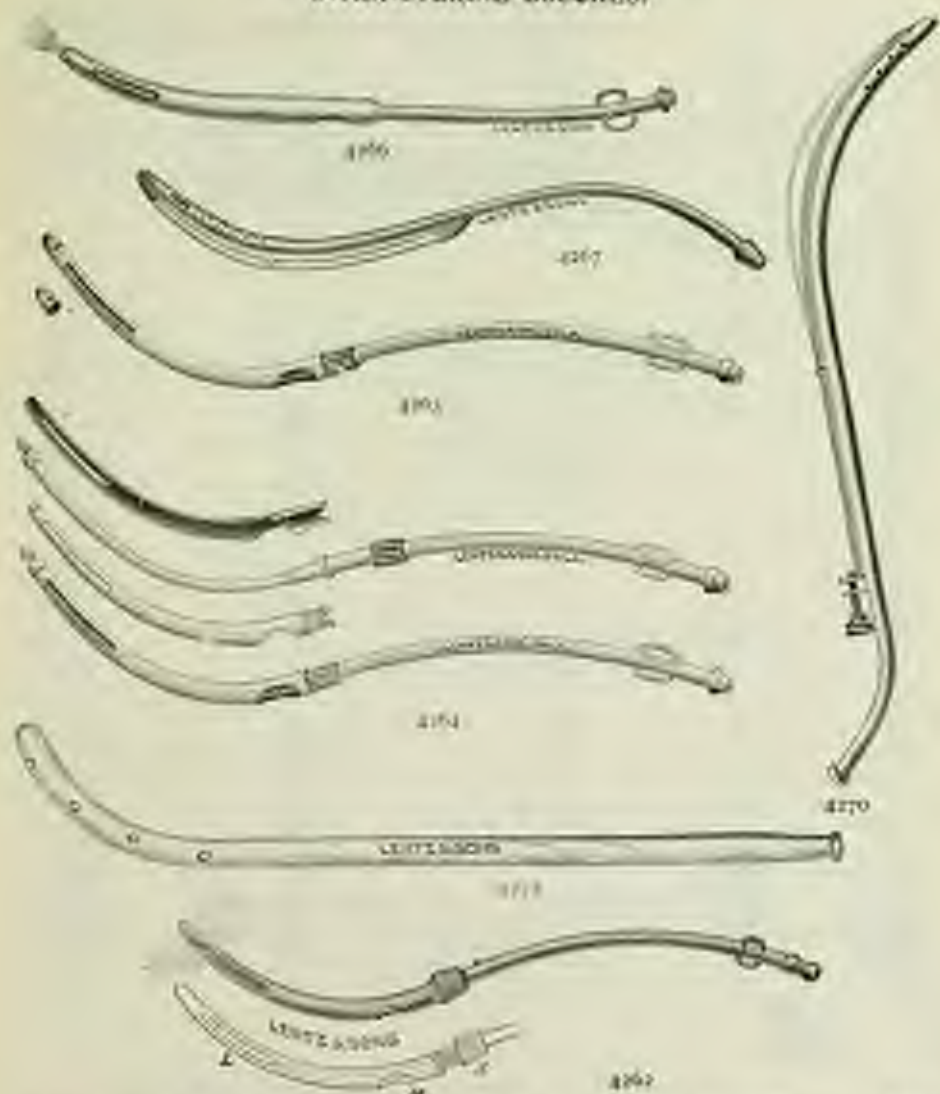
4254

4245*	Intra-Uterine Syringe, hard rubber	1/2 oz., 85c; 1 oz., \$1.00; 2 oz., \$1.25
4246*	Even's, metal, with small glass barrel and extra long tube	1.25
4247*	Brown's, hard rubber, with glass barrel, h. r. mounted and extra long tube	1.25
4248*	Taylor's, hard rubber, with graduated glass barrel	1.50
4249*	Lentz's, with two silver tubes in case	4.00
4250*	Pipette, Skene's, glass, for instillation . . . . .	.25
4251*	Douche, Jesson's	1.00
4252*	Lentz's improved	1.00
4253*	Glasgow's	1.00
4254*	Doyle's	2.00
4255*	Bosman's	1.25

All instruments illustrated are designated by a *.

Gynecological Instruments.

INTRA-UTERINE DOUCHES.

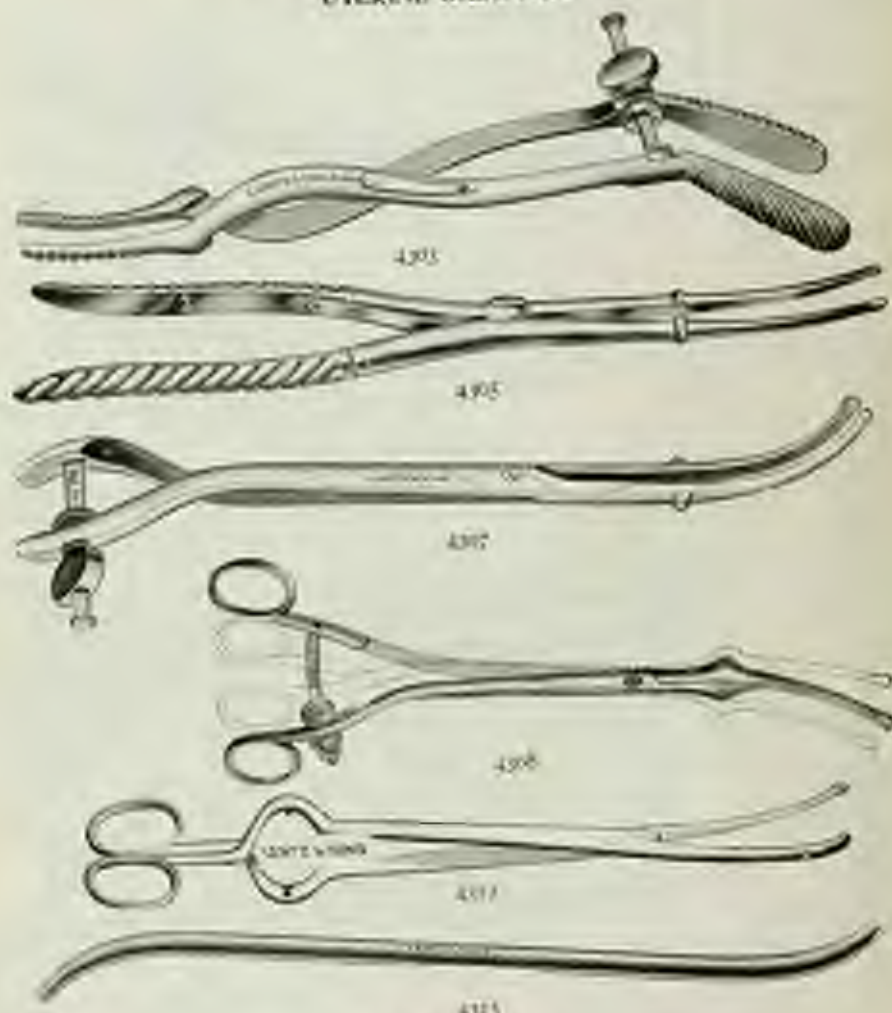


4266.	Intra-Uterine Douche, Fritsch's modified Bouman's, metal, inserted	\$1.25
4267.	" " " " " " " " " " " "	1.00
4268.	" " " " " " " " " " " "	2.50
4269.	" " " " " " " " " " " "	2.50
4270.	" " " " " " " " " " " "	1.50
4271.	" " " " " " " " " " " "	.75
4272.	" " " " " " " " " " " "	1.00
4273.	" " " " " " " " " " " "	1.25
4274.	" " " " " " " " " " " "	.30
4275.	" " " " " " " " " " " "	.30
4276.	" " " " " " " " " " " "	.40

All instruments illustrated are designated by a *.

Gynecological Instruments.

UTERINE DILATORS.



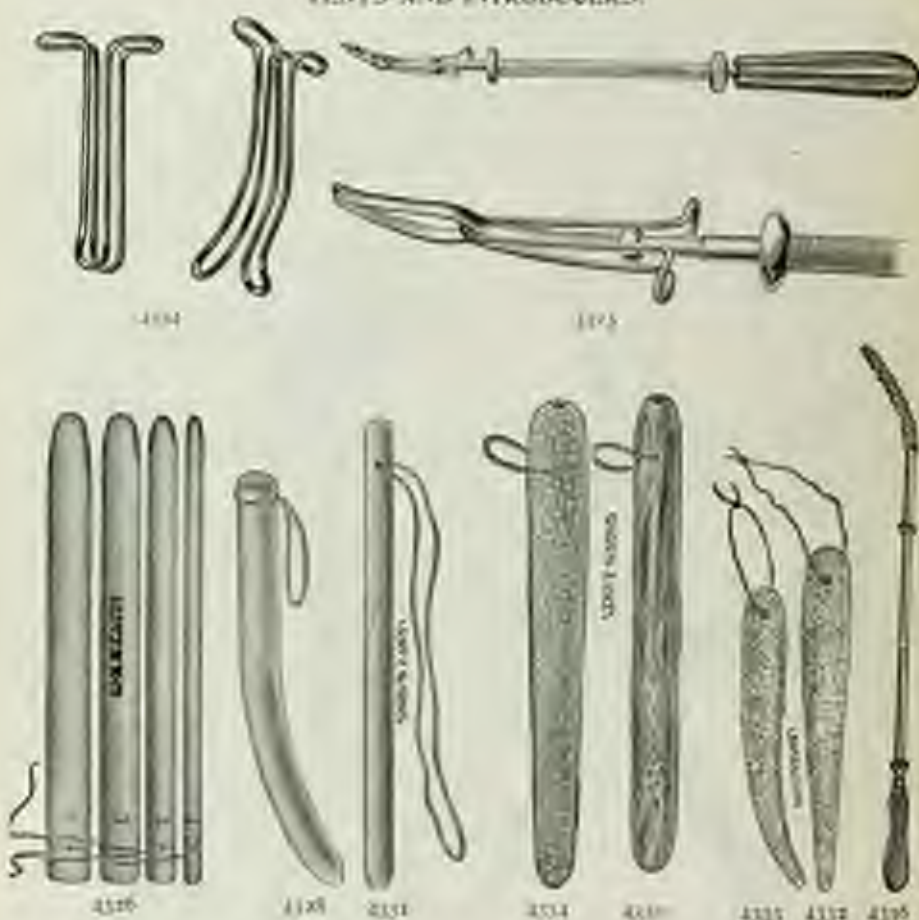
Uterine Dilators.

4303*	Walton's, heavy, with corrugated blades, hollow handles	\$5.75
4304	" " light, " smooth	3.25
4305*	Wyke's, plain	2.50
4306	" " with graduated screw at end of handle	3.00
4307*	Palmer's, with bent handle and graduated screw at end of handle	2.50
4308*	" " straight handle, graduated screw at end of handle	2.25
4309	" " corrugated blades, large bent ring handles	3.00
4310	Richer's, four-bladed, aseptic	15.00
4311*	Alice's light, with smooth blades, straight screw handle	2.50
4312	Hegar's, steel, nickel-plated, with handle, one size	each 25
4313*	Pratt's, " " double-ended	75
4314	" " set of eight, stainless steel, in linen roll	6.50

All instruments illustrated are designated by a *

Gynecological Instruments.

TESTS AND INTRODUCERS.

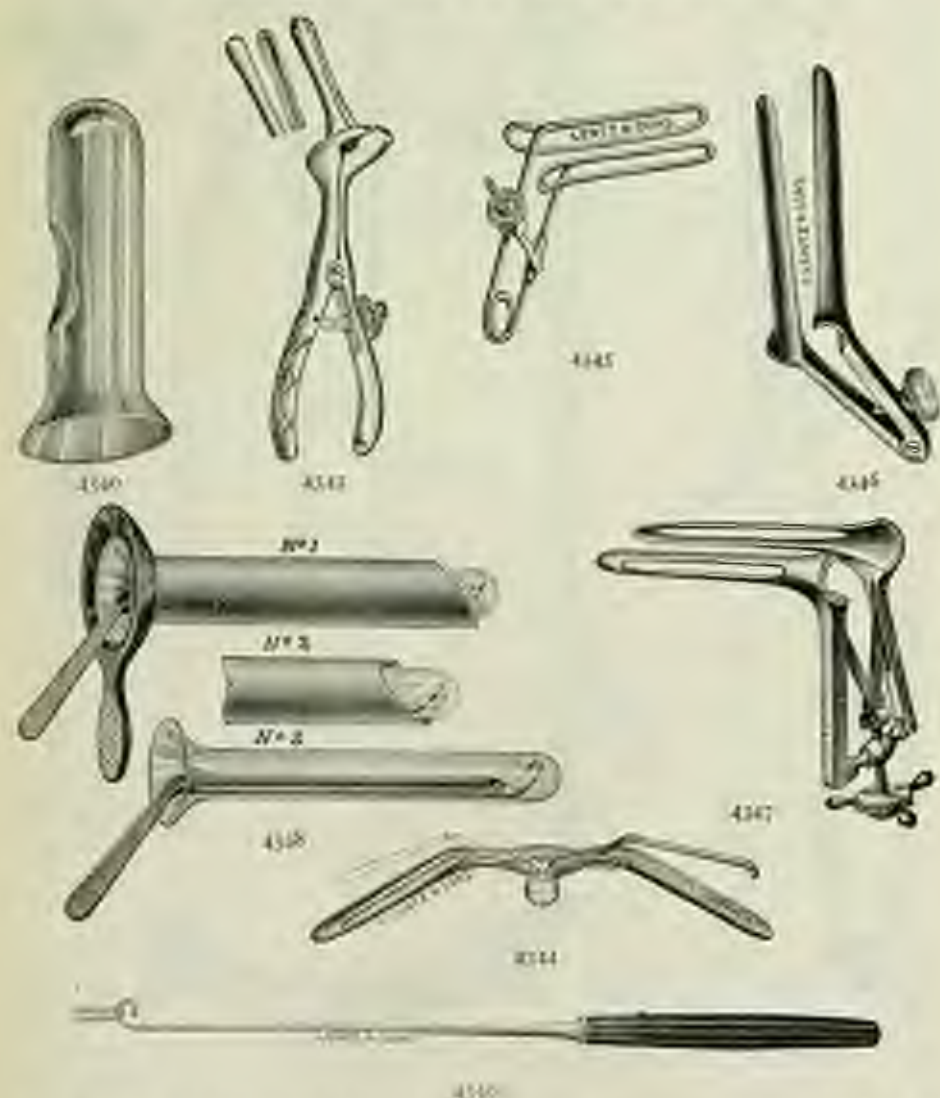


4334.*	Cervical Dilators, Crutcheff's, silver wire, different sizes	each	\$0 32
4335.*	Introducers, " " for wire dilators	each	1 25
4336.*	Slippery Elm Tests, solid, four sizes	each	\$0 20, doz. 2 75
4337.*	" " " hollow, three sizes	"	75 " 2 40
4338.*	" " " curved, " "	"	30 " 2 60
4339.*	Sea Tangle Tests, solid, assorted sizes	"	25 " 2 45
4340.*	" " " hollow, " "	"	30 " 2 60
4341.*	Triple Tests, solid, " "	"	25 " 2 45
4342.*	Sponge " test quality, straight, assorted sizes	"	30 " 1 75
4343.*	" " " curved, " "	"	25 " 2 40
4344.*	" " " glazed, various	"	25 " 2 40
4345.*	" " " curved	"	25 " 2 75
4346.*	Test Introducer and Speculum	"	45

All instruments illustrated are designed by a *

Gynecological Instruments.

URETHRAL SPECULA AND VAGINAL DILATORS.



4340.*	Vaginal Dilator, 'Sims', glass, six sizes,	each	\$5.00
4341.*	" " " " " " " " " " " "	"	80
4342.*	" " " " " " " " " " " "	"	4.45
4343.*	Urethral Speculum, 'Sims', double,	"	1.25
4344.*	" " " " " " " " " " " "	"	1.25
4345.*	" " " " " " " " " " " "	"	90
4346.*	" " " " " " " " " " " "	"	75
4347.*	" " " " " " " " " " " "	"	1.25
4348.*	" " " " " " " " " " " "	"	2.00
4349.*	" " " " " " " " " " " "	"	1.00

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Gynecological Instruments.

CATHETERS, SINGLE AND DOUBLE CURRENT.



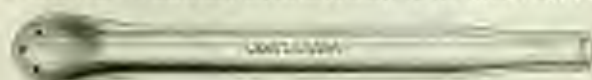
Model	Description	Material	Price
4351*	Female Catheter	silver plated	\$50.00
4352*	"	"	80.00
4353*	"	glass	each, 5c. ; dozen 50.00
4354*	"	Seane's, reflux, plated	75.00
4355*	"	Double Current, Skene's, plated	1.00
4356*	"	" Nott's	1.00
4357*	"	" regular pattern, plated	1.00
4358*	"	" latest pattern	1.00
4359*	"	" Superior Linen, flexible	1.25
4360*	"	Goodman's, self-retaining	hard rubber, 50c. ; plated 75.00
4361*	"	Skene's-Goodman's, self-retaining	hard-rubber, 50c. ; plated 75.00
4362*	"	Fezzer's, self-retaining, with mushroom	capot, best quality, soft rubber 80.00

Can be sterilized by steam or immersed in mercuric bichloride solution.
For other illustrations of Fezzer's Catheters see "Male Urinary Instruments."

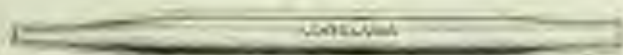
All instruments illustrated are designated by a*.

Gynecological Instruments.

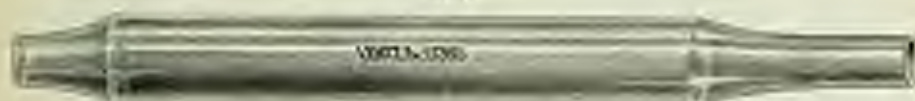
VAGINAL NOZZLES, IRRIGATORS AND SHUT-OFFS.



4404



4405



4406



4411



1" 4407



4408



4412



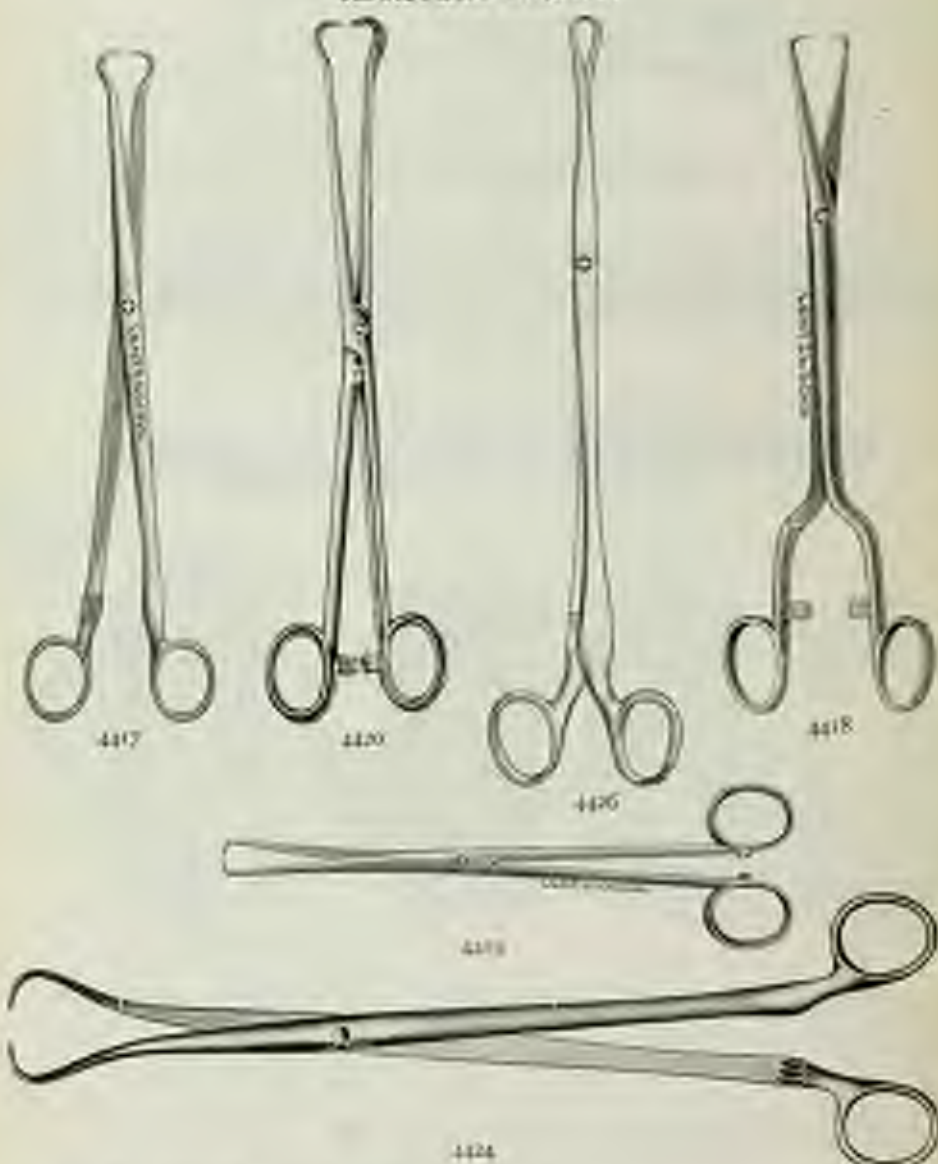
4414

4404.*	Vaginal Irrigating Nozzle, glass	each	\$0 00; dozen	\$1 00
4405.*	" " " " " Robb's	"	10;	80
4406.*	" " " " " large for vaginal	"	"	"
	padding; cut is actual size	"	20;	80
4409.	" " " " " long rubber, like fig. 4404;	each	20;	1 00
4410.	Rectal	"	15;	75
4411.*	Irrigator Shut-off, self-retaining, nickel-plated, easily adjustable to control the flow through any size tubing	"	60;	6 00
4412.	" " " " " metal, automatic, as used on Fountain Syringes	"	"	"
	" " " " " small, per doz.	"	\$0 20;	large, per doz.
4407.*	Irrigator, steel, white enameled, flat back and bottom, with handle,	"	1 1/4-qt., \$0 00; 2-qt., \$1 00; 3-qt., \$1 20; 4-qt., \$1 40; 5-qt.,	1 70
4408.*	" " " " " crystal glass, flat back and bottom; graduated,	"	1-qt., \$0 00; 2-qt., \$1 20; 3-qt., \$1 55; 4-qt.,	2 00
4413.*	" " " " " wog shape, with handle; graduated,	"	1-qt., \$1 05; 1 1/2-qt., \$1 20; 2-qt., \$1 35; 3 1/2-qt.,	1 70
4414.*	" " " " " wog shape, with handle, raised back; graduated,	"	1-qt., \$1 25; 1 1/2-qt., \$1 50; 2-qt.,	1 65

For Tubing, white and pure gum, also Vaginal Syringes, see Rubber Goods.

Gynecological Instruments.

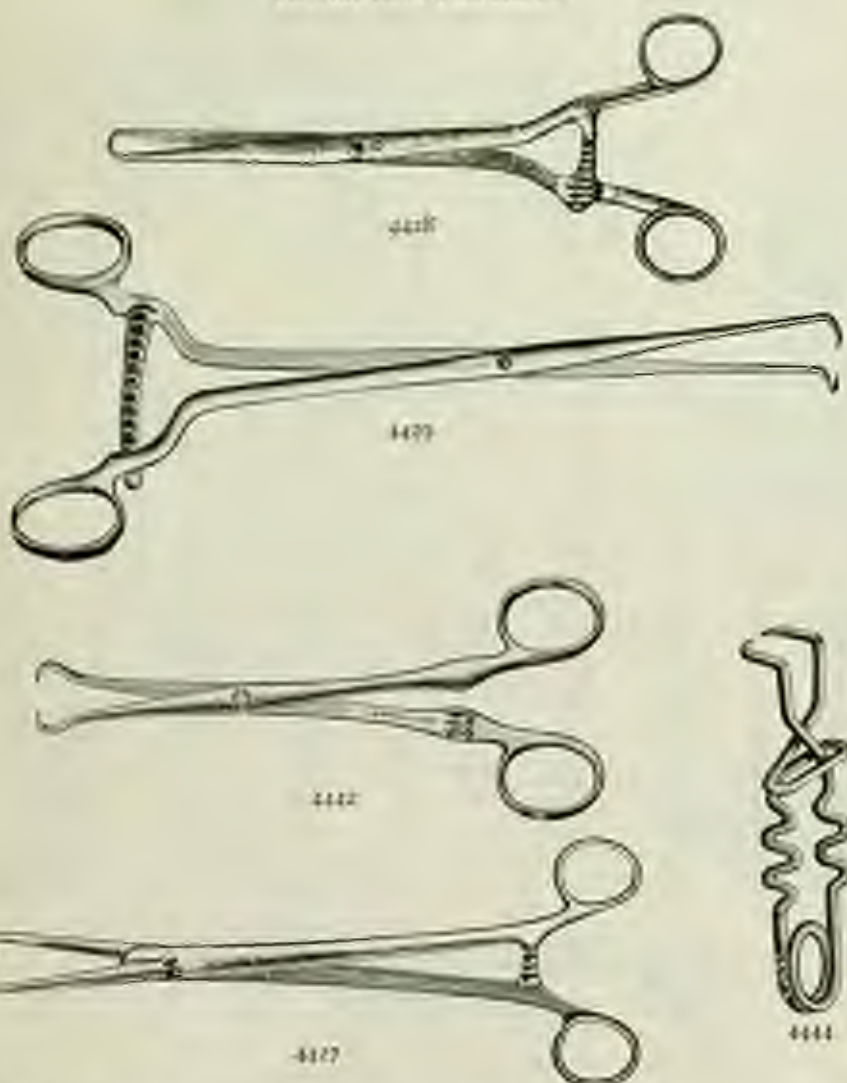
TENACULUM FORCEPS.



4417 ^b	Tenaculum Forceps	Goodell's, 10 inches long	\$2.00
4418 ^a	"	Drain's, with three catches, 10 inches long	1.75
4419 ^a	"	Robb's, with one catch, 8½ inches long	1.60
4420 ^a	"	Wyke's, three prongs, with three catches, 8½ inches long	2.25
4421 ^a	"	Schroeder's, with three catches, 10 inches long	1.75
4422 ^a	"	Stone's, curved sideways, 8½ inches long	1.75
4423 ^a	"	Allin-Goodell's, hook and eye points, 10 inches long	2.25
4424 ^a	"	Hirst's, with large hooks, 10 inches long	2.25
4425 ^a	"	Edebohl's light, three prongs, 8½ inches long	2.25
4426 ^a	"	Allin-Goodell's, small hooks, 10 inches long	2.00

Gynecological Instruments.

TENACULUM FORCEPS.

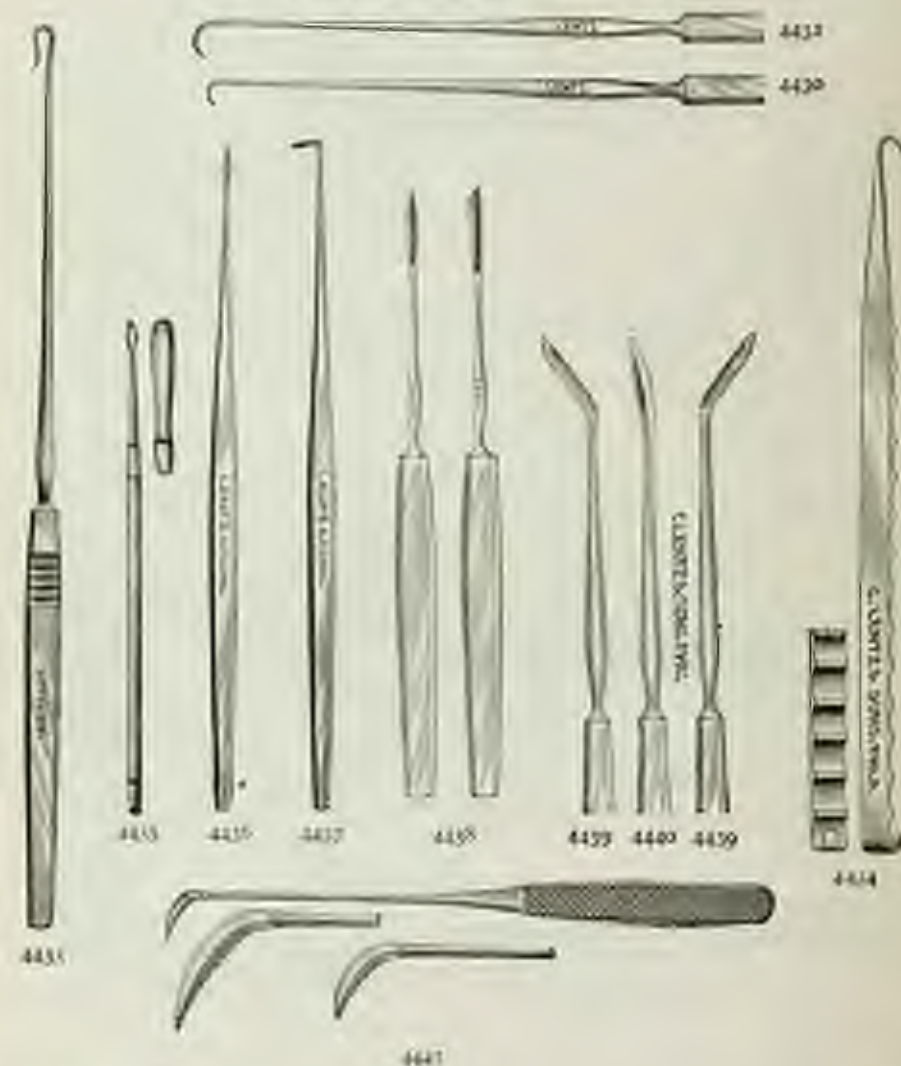


4437.*	Tenaculum Forceps,	Pryce's, three prongs, blunt, 9 1/4 inches long . . .	\$2 75
4438.*	"	Newman's, reversible, 9 1/2 inches long . . .	2 25
4439.*	"	Barrett's, for plastic operations upon posterior wall of uterus . . .	2 25
4442.*	"	Passell's, 6 inches long . . .	2 00
4443.*	"	Bernay's, 5 . . .	1 25
4444.*	Clamp,	Backhaus', for fastening cloths around field of operation, 3 1/2 inches long. (See illustration, page 25.) . . . per doz, \$9 00; each . . .	85
		W. W. Babcock's, self-closing, for fastening cloths around field of operation, per doz, \$6 00; each . . .	65

All instruments illustrated are designated by a *.

Gynecological Instruments.

TENACULA, SCARIFICATORS AND KNIVES.



4441

4430.*	Tenaculum, Sims	\$0.80
4431.*	" Goodell's, heavy	.80
4432.	" Bismarck's	.80
4433.*	" Kelly's, shepherd's crook	1.00
4434.*	" " with corrugated handle	1.25
4435.*	Scarificator, Settle's, with cap to protect point	1.00
4436.*	" Kelly's	1.25
4437.*	" (Knife-Blade Tenaculum)	1.25
4438.*	Uterine Scalpel, different sizes	each 1.25
4439.*	" Bistoury, singular, right or left	" 1.75
4440.*	" Knife, curved on flat, double edged	" 1.75
4441.*	Trachelorrhaphy Knives, Goslet's, steel handles, three sizes	" 2.00

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

SHOT COMPRESSING FORCEPS AND COUNTER-PRESSURE INSTRUMENTS.



4445.*	Shot Compressing Forceps, with French joint	\$1 75
4446.*	" " and Ligature Cutting Forceps, combined, Miller's	1 75
The beaks have two semi-circular, raised cutting edges for cutting off the ligatures after the shot is compressed. This combination saves much time, as it avoids the necessity of taking up the scissors for each ligature.		
4447.*	Shot Perforating Forceps	\$2 50
4448.*	" Feeder, Morton's, with 6 dozen shot and pin	3 75
4449.*	Perforated Shot, Nos. 9, 11, 12, 14, French scale,	
	per doz., 100; per hundred	60
4450.*	Suture Button, Gschell's	50
4451.*	" " Powell's	1 25
4452.*	Pulley or Fork, Sims'	75
4453.*	Wire Adjuster or Shield, Sims'	1 00
4454.*	Blunt Hook, Sims', for counter-pressure	75
4455.*	Fork, Wylie's, for counter-pressure	1 00

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

TISSUE HOLDING AND WIRE TWISTING FORCEPS.



4439*	Tissue Holding Forceps,	J. S. Stone's; five and six teeth, 6 in. long	\$1.50
4439*	"	"	"
4440*	"	"	"
4441*	"	"	"
4442*	"	"	"
4443*	"	"	"
4444*	"	"	"
4445*	"	"	"
4446*	"	"	"
4447*	"	"	"
4448*	"	"	"
4449*	"	"	"
4450*	"	"	"
4451*	"	"	"
4452*	"	"	"
4453*	"	"	"
4454*	"	"	"
4455*	"	"	"
4456*	"	"	"
4457*	"	"	"
4458*	"	"	"
4459*	"	"	"
4460*	"	"	"
4461*	"	"	"
4462*	"	"	"
4463*	"	"	"
4464*	"	"	"
4465*	"	"	"
4466*	"	"	"
4467*	"	"	"
4468*	"	"	"
4469*	"	"	"
4470*	"	"	"
4471*	"	"	"
4472*	"	"	"

All instruments illustrated are designated by a *

Gynecological Instruments.

VESICO-VAGINAL SCISSORS.



4491.*	Uterine Scissors, straight, sharp or blunt points.	7½ in., \$1.25; 8 in.	\$1.40
4492.*		extra heavy	1.75
4493.*	curved on flat, sharp or blunt points.	7½ in., \$1.50; 8 in.	1.65
4494.*	curved on flat, sharp or blunt points, extra heavy.		2.00
4495.*	Emmet's, angular bent, 7½ in.		1.75
4496.*	slight curve, right or left	each	2.00
4497.*	left		2.75
4498.*	Byerman's, double curved		2.50
4499.*	Byford's, straight, 8½ in.		2.50
4500.*	curved		2.50

All instruments illustrated are designated by a *

Gynecological Instruments.

VESICO-VAGINAL AND ABDOMINAL SCISSORS.



4487



4488



4489



4490

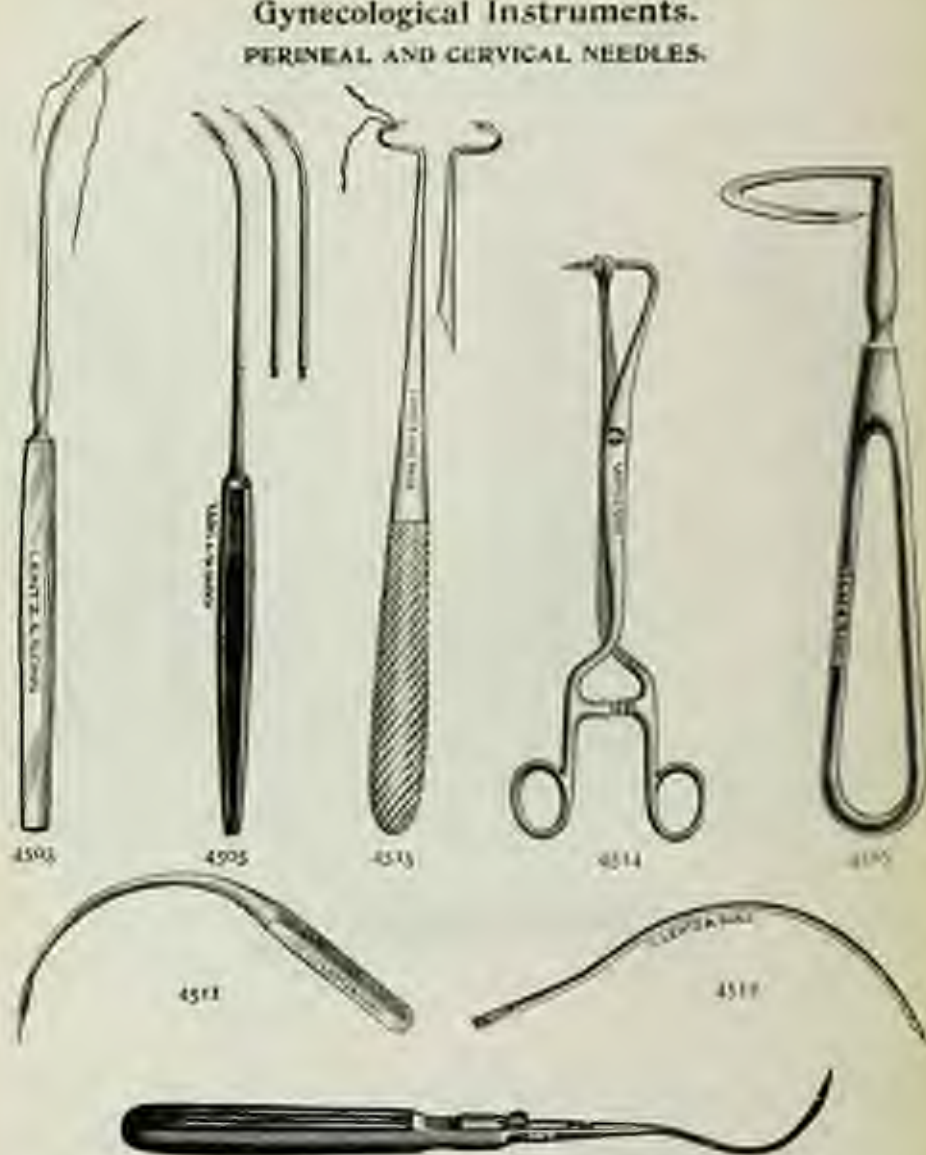
4487.*	Uterine Scissors, Sims'; bent angular on flat, probe pointed	1.50
4488.*	" " Kelly's; light, curved on flat, sharp or blunt pointed	each 1.50
4489.*	Peritoneal Scissors, Greig-Smith's; curved sideways	1.00
4490.*	" " Olsen's; angular	2.00
4491.	Perineal " Jenks'; rounded blades, curved on flat	1.75
4492.	Abdominal " Dwyer's; heavy, straight, blunt pointed, 2 inch	1.50
4493.	" " " curved " " 2 1/2 "	1.75
4494.	" " Ferguson's; bent angular on flat, screw joint	2.25

All instruments illustrated are designated by a *.

"Our Factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Gynecological Instruments.

PERINEAL AND CERVICAL NEEDLES.



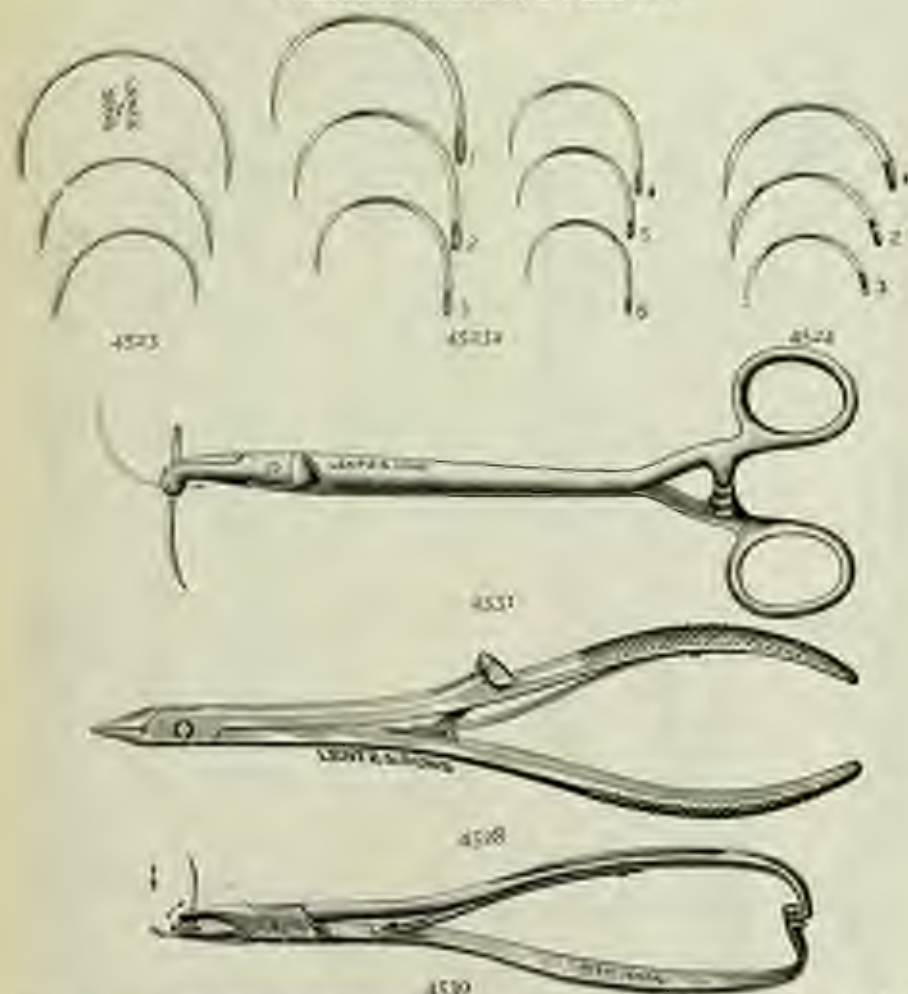
4507

4502.	Perineum Needle, plain, metal handle	50 25
4503.	" " Ashton's	50
4504.	" " Skene's, open eye, straight or curved	1 00
4505.	" " Peaslee's, set of three	2 50
4507.	" " Reverdin's, with closing eye, four different curves, each	1 50
4508.	" " " " automatic closing eye, different curves	3 00
4510.	" " Papin's	50
4511.	" " Wilson's	1 00
4512.	" " Goodell's, three sizes	each 15
4513.	" " Wilson's, right and left	1 25
4514.	" " Garin's (with counter pressure)	1 25
4515.	" " Carson's (see fig. 357, page 24)	1 25
4516.	Perineum " B. C. Hiest's, full circle curve	2 00
4517.	Abdominal " Doyen's	1 00

For other Needles see pages 17 to 24.

Gynecological Instruments.

NEEDLE HOLDERS AND NEEDLES.



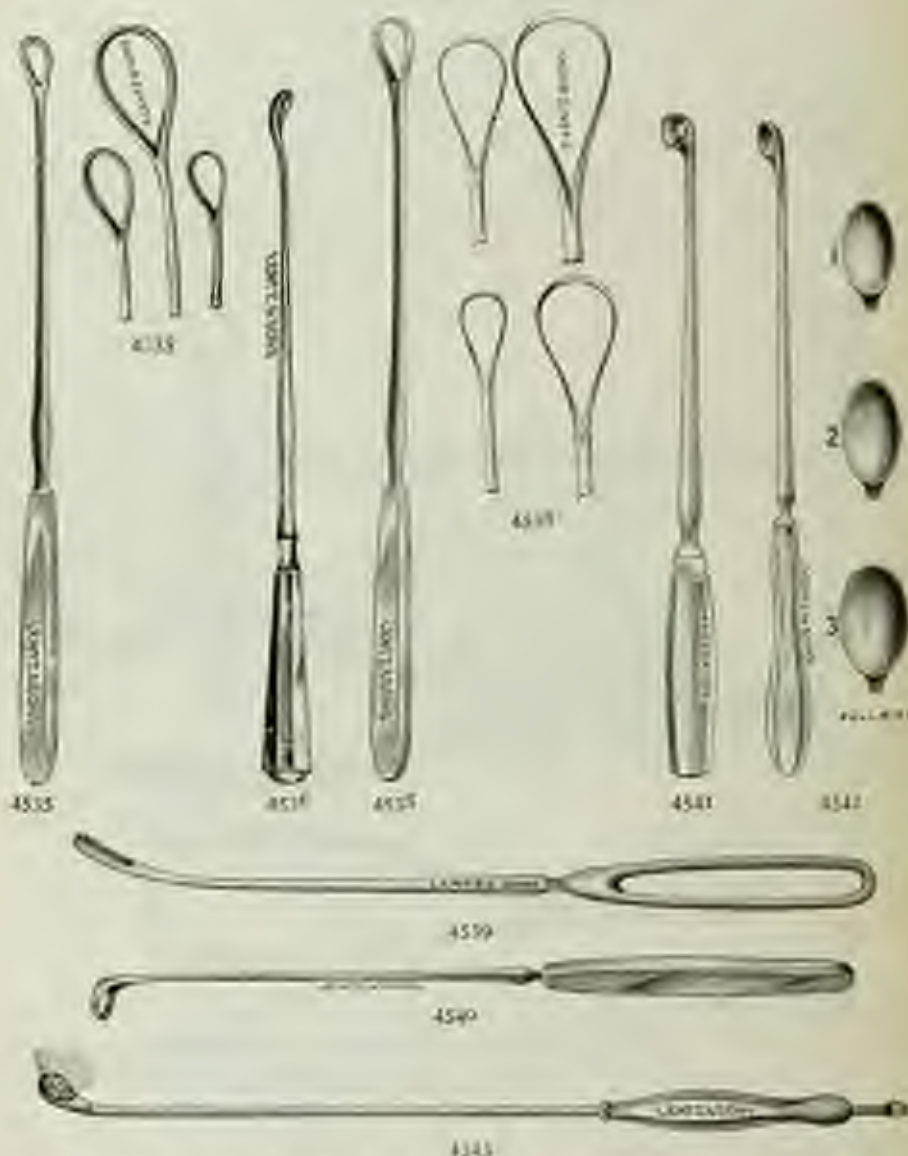
4518.	Cervix	Needles.	Everett's, round point, $\frac{1}{4}$ to $1\frac{1}{2}$ inch	dot, \$ 0 60
4519.	"	"	Harker's, double edge, stout, $\frac{1}{4}$ to $1\frac{1}{2}$ inch	" 85
4520.	"	"	Sims', concave point, straight or curved, $\frac{1}{4}$ to $1\frac{1}{2}$ inch	" 75
4521.	"	"	Skene's, trocar point, straight, stout, $\frac{1}{4}$ to $1\frac{1}{2}$ inch	" 75
4522.	"	"	Emmet's, " " stout, half and full curved, $\frac{1}{4}$ to 2 inch	" 60
4523.	"	"	Kelly's, sickle-shape, three sizes	" 75
4524.	"	"	" rectangular, six sizes	" 25
4525.	"	"	Murphy's, three sizes	" 85
4526.	"	"	Hagelton's, half curved and full curved	" 60
4527.	Needle Holder,	"	Reiser's, 8 inches long	3 00
4528.	"	"	Kelly's	3 50
4529.	"	"	Noble's improved Reiser's, 8 inches long	3 00
4530.	"	"	H. C. Hart's, 8 inches long (see fig. 410)	3 25
4531.	"	"	Richter's, holds any style needle, 7 and 8 inch	each 3 50
4532.	"	"	Doyen's, will hold needle at any angle	3 00

For other patterns of Needles and Needle Holders, see pages 17 to 24.

All instruments illustrated are designated by a *

Gynecological Instruments.

CURETTES.



4535.	Curette, Thomas', blunt, three sizes.	each	\$1.00
4536.	" " " " " " " "	"	1.25
4537.	" " " " " " " "	"	1.00
4538.	" " " " " " " "	"	1.15
4539.	" " " " " " " "	"	1.15
4540.	" " " " " " " "	"	1.25
4541.	" " " " " " " "	"	2.00
4542.	" " " " " " " "	"	1.25
4543.	" " " " " " " "	"	2.50
4544.	" " " " " " " "	"	2.50

All instruments illustrated are designated by a "

Gynecological Instruments.

CURETTES.



4546*	Curette, Recamier's; sharp, six sizes	each \$1 75
4548*	" Martin's; steel, sharp, curved	2 00
4549*	" " Hunt, double ended	1 75
4550*	" Reynolds's; sharp, double edged, flexible shank; three sizes	each 1 25
4552	" Reynolds's; sharp, double edged, irrigating, three sizes	1 50
4555	" saucer shaped; three sizes	1 00
4556*	" Franklin's; Hunt, large loop, flexible shank	1 25
4557*	" McDole's, spiral, with smooth or fluted edge	1 75
4558*	" " irrigating, with smooth or fluted edge	3 00
4559	" Bobb's (curettoma); sharp	3 00

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Gynecological Instruments.

RINSING CURETTES. CURETTING FORCEPS.



4565



4564



4566



4560



4553

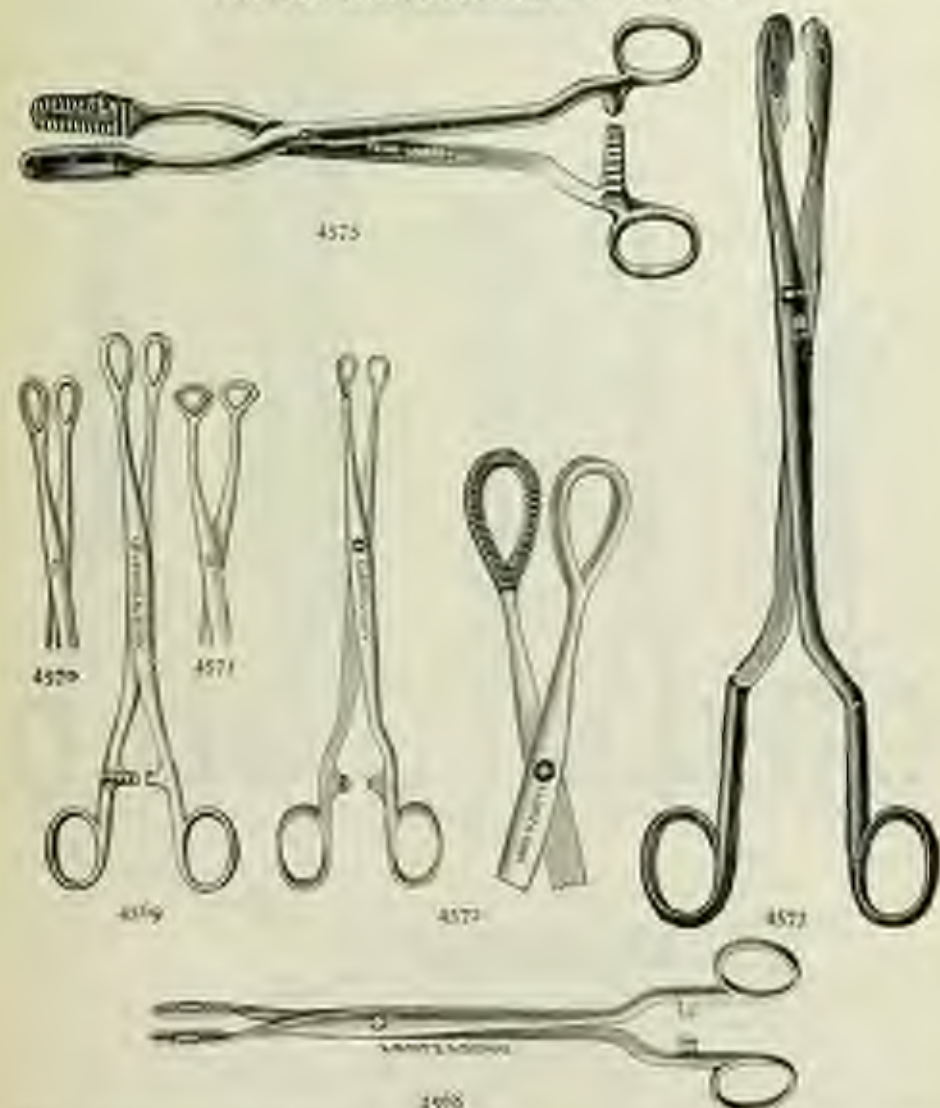


4554

- | | | |
|--------|---|-------------|
| 4564.* | Cuscut, Sims', irrigating, three sizes | each \$1.25 |
| 4565.* | " Langstaff's, four sizes | " 1.75 |
| 4566.* | " Goldenrod's, irrigating, three sizes | " 1.85 |
| 4560.* | " "Berlin," set of three with one handle | 1.00 |
| 4560. | " Lentz's set of three and one large handle, extra fine | 2.75 |
| 4562. | Gynecological Set, consisting of a set of rinsing curettes, tenaculum, graduated sound, probe, applicator, sponge holder and two handles, in morocco leather case | 3.00 |
| 4553.* | Cuscut Forceps, Emmet's | 2.75 |
| 4554.* | " " Chas. P. Noble's | 2.75 |

(All instruments illustrated are designated by a *.)

Gynecological Instruments. POLYPUS AND MORCELLEMENT FORCEPS.

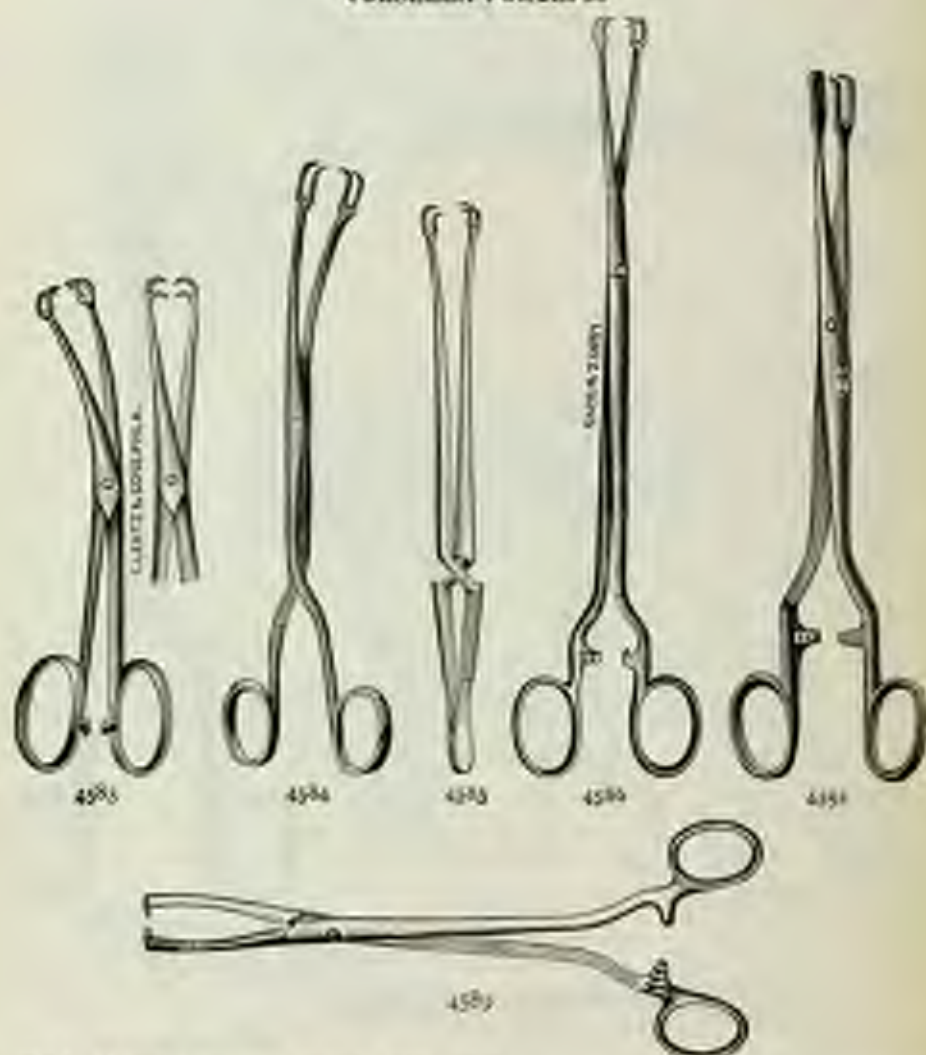


4570.	Polypus Forceps, long, heavy, with catches	\$2.00
4571.	" " and Sponge Holder, straight, with round jaws and catches	2.00
4572.	" " Loe's, straight, with sharp grooved jaws and catches	2.75
4573.	" " " " curved, " " "	3.00
4574.	" " Wilson's, straight, with serrated	2.50
4575.	" " Schallor's, with cutting edges	2.50
4576.	" " Longyear's, " " "	2.25
4577.	" " Pean's, " " "	4.00
4578.	" " McCluskey's, " " "	4.00
4579.	" " Harwood's-Smith's, " " "	5.00

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

VOLSELLA FORCEPS.



4583.* VolSELLa Forceps, curved, with catch.

4584.*	"	"	6 inch, \$1 85; 8 inch, \$2 00; 10 inch \$2 25
4585.*	"	"	10 inch, without catch, \$2 00; with catch 2 25
4586.*	"	"	cross-action, self holding, 8 inch 2 25
4587.*	"	"	Unkrig's, with catch, 10 inch 2 25
4588.*	"	"	Barr's, 8 1/2 2 25
4589.*	"	"	Jacobi's, 8 inch 2 25
			Hennrich's, two teeth into three teeth, 8 inch;
			without catch, \$2 60; with catch 2 75
4590.*	"	"	Teale's, curved 2 25
4591.*	"	"	Leonard's, bent handle 2 25
4592.*	"	"	Schneider's, curved on flat or to side, with catch 2 25
4593.*	"	"	Schultz's, with one fat blade and two prongs 2 25

All instruments illustrated are designated by a *.

Gynecological Instruments.

UTERUS ELEVATING FORCEPS.



4394



4395



4396



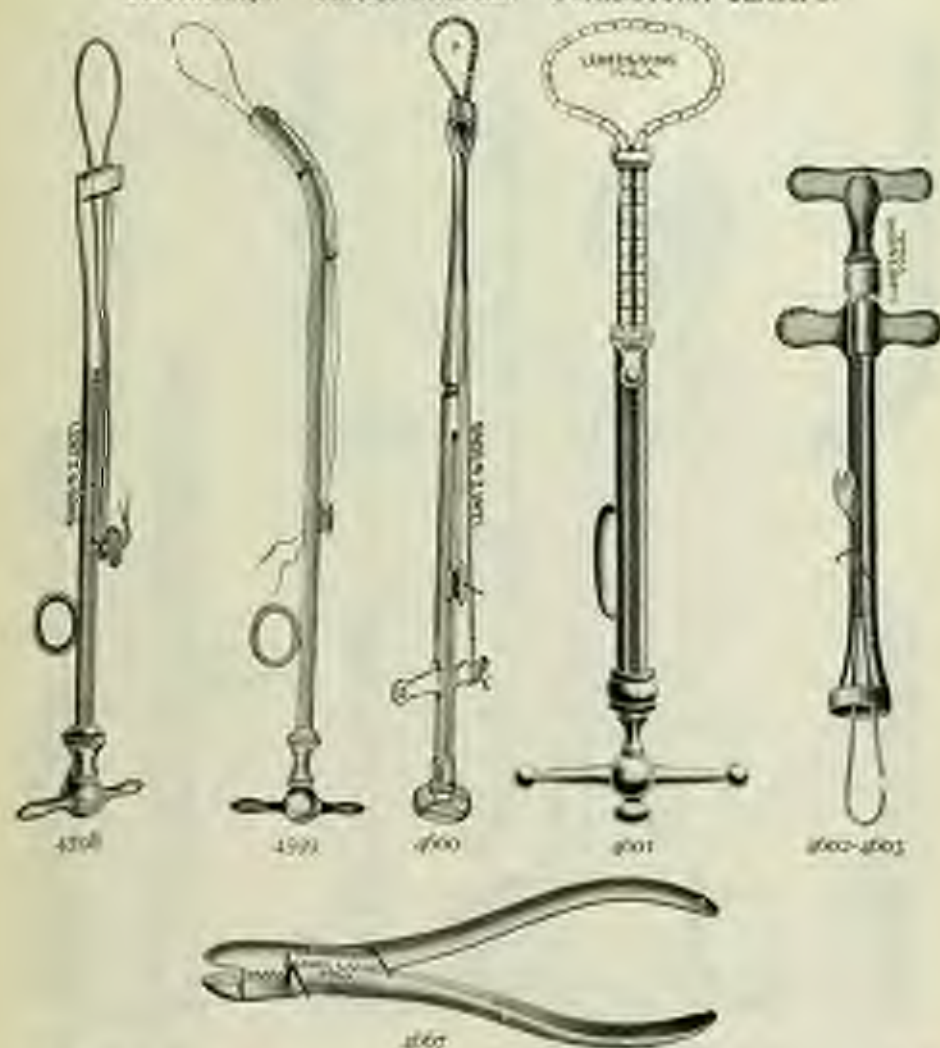
4397

4394.*	Uterus Elevating Forceps,	Cullen's	\$5.00
4395.*	"	Sherk's	7.50
4396.*	"	Somers'	5.00
4397.*	"	Barrett's	3.50

The frequency with which operators find it necessary to use the tenaculum forceps to elevate the uterus, even though not wishing to remove the organ, and the difficulty experienced in checking the hemorrhage from the punctures so made led to the construction of the forceps shown.

Gynecological Instruments.

ECRASEURS. SERRE-NOEUDS. OVARIOTOMY CLAMPS.

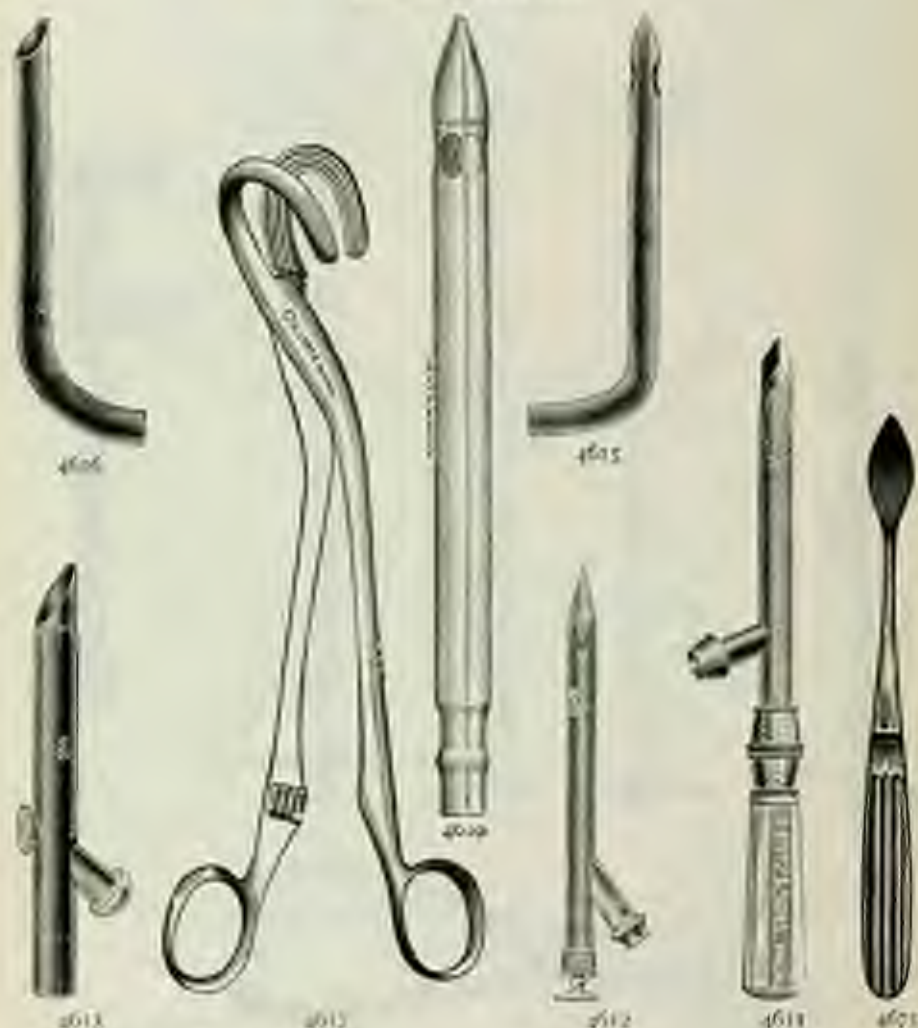


4598.*	Wire Ecraseur, Smith's, straight	\$3 00
4599.*	" " " " curved	1 25
4600.*	Braxton-Hicks' long, with straight and curved point	10 00
4601.*	Chain Ecraseur, Lister's	11 00
4602.*	Serre-Noeud, Koerber's, made of phosphor-bronze, nickel-plated, small	4 00
4603.*	" " " " large	4 50
4604.	Ovariotomy Clamp, Lawson Tail's	5 00
4605.	" " " Keith's	6 00
4606.	" " " Thomas'	3 00
4667.	Brown Wire, twisted wire, used with Ecraseurs	per yard 50
4668.	Delta Wire, used with Serre-Noeud	25
4667.*	Wire Twisting and Cutting Forceps	2 00

All instruments illustrated are designated by a P.

Gynecological Instruments.

OVARIAN TROCARS.

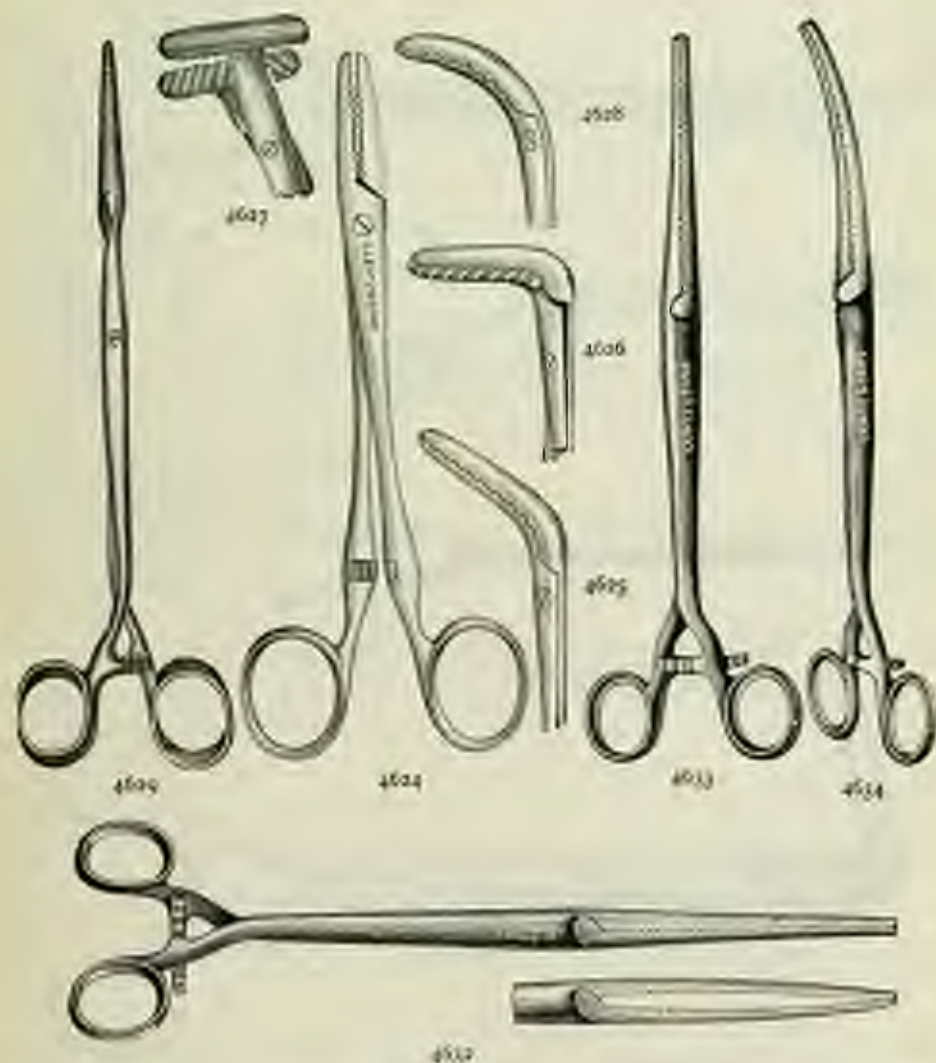


4606*	Ovarian Trocar, Kelly's, glass	\$1.25
4607*	" " " " " " " "	3.00
4608*	" " " " " " " "	3.50
4609*	" " " " " " " "	1.50
4610*	" " " " " " " "	2.00
4611*	" " " " " " " "	2.25
4612*	" " " " " " " "	1.00
4613*	" " " " " " " "	0.00
4614*	" " " " " " " "	4.00
4615*	" " " " " " " "	3.50
4616*	" " " " " " " "	2.50
4617*	" " " " " " " "	2.50
4618*	" " " " " " " "	1.50
4619*	" " " " " " " "	2.50
4620*	" " " " " " " "	2.50
4621*	" " " " " " " "	2.50
4622*	" " " " " " " "	2.50
4623*	" " " " " " " "	2.50

All instruments illustrated are designated by a *.

Gynecological Instruments.

HYSTERECTOMY AND PEDICLE FORCEPS.



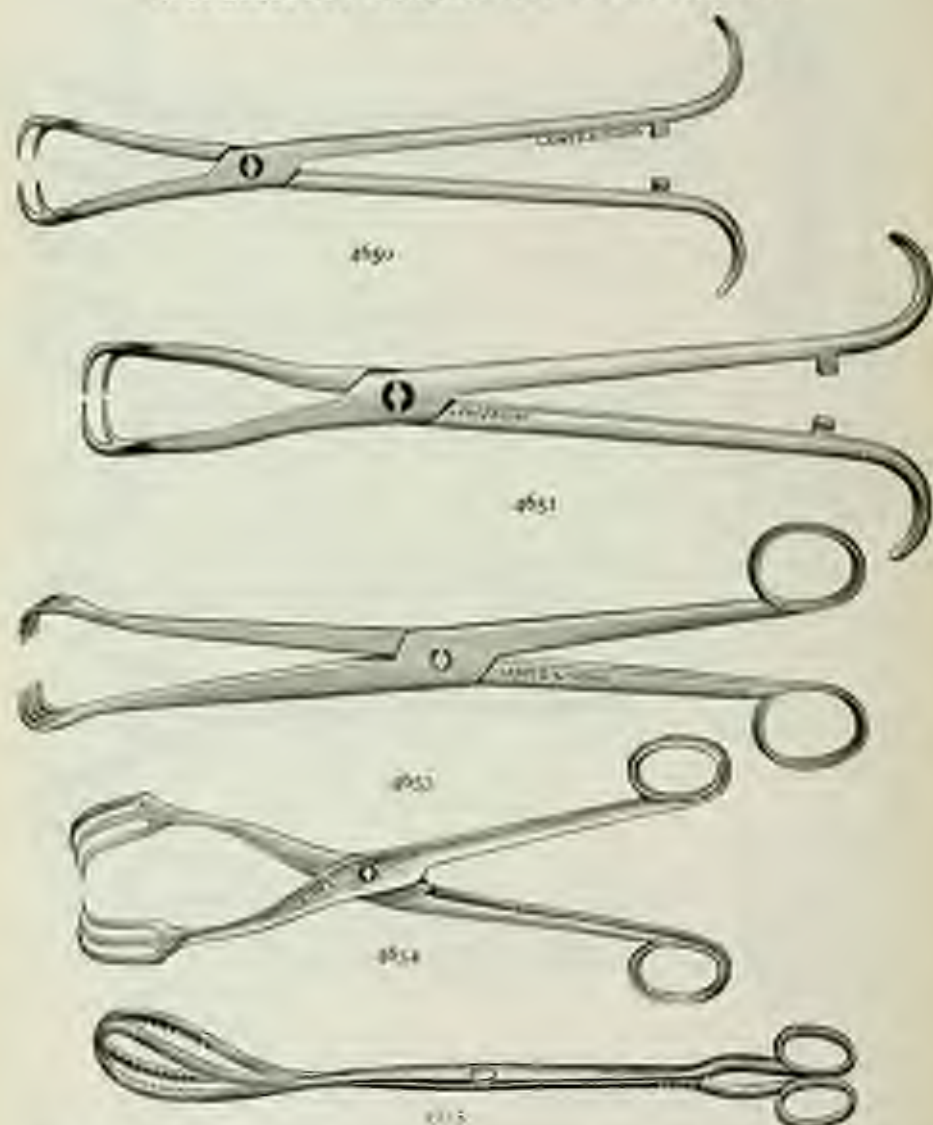
4604.*	Pedicle Forceps, Spencer Wells'	straight, French joint, 9-inch	\$2.75
4605.*	" " " "	half curve, French joint, 9-inch	3.00
4606.*	" " " "	fell	3.00
4607.*	" " " "	T-shaped, French joint, 9-inch	3.25
4608.*	" " " "	" " " "	3.00
4609.*	" " " "	" " " "	2.25
4610.*	" " " "	" " " "	2.75
4611.*	" " " "	" " " "	2.50
4612.*	" " " "	" " " "	2.75
4613.*	" " " "	" " " "	2.75
4614.*	" " " "	" " " "	2.75
4552.*	Hysterectomy Forceps, Doyen's, for large ligaments	5-16, 2-25; 11-25	2.75
4553.*	" " " "	5-16, 2-25; 10-25	2.50
4554.*	" " " "	curved	2.25; 10-25

We make all our own forceps; they are hand-forged and carefully finished and should not be confused with the cheap instruments which flood the market.

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

HYSTERECTOMY TRACTION AND TUMOR FORCEPS.

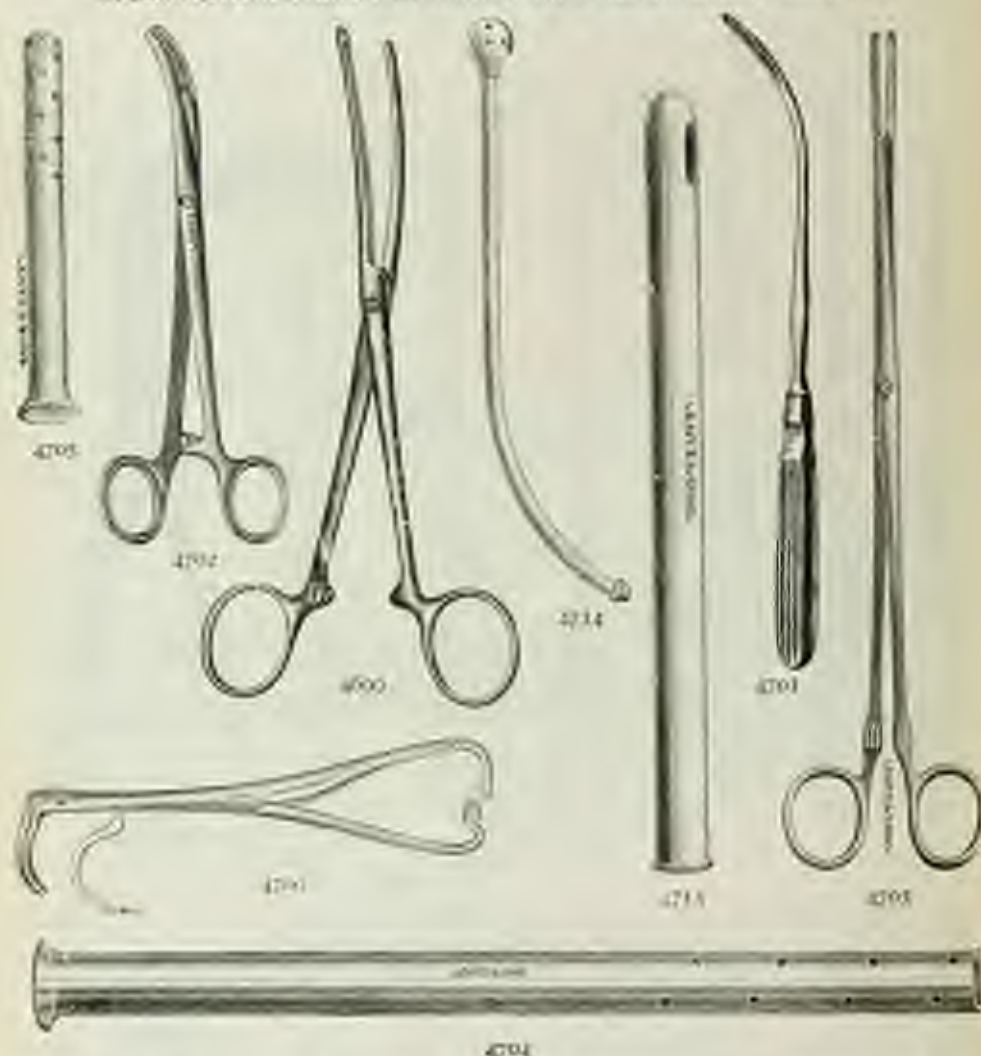


4550.*	Hysterectomy Traction Forceps, Heer's, large	\$ 3.75
4551.*	" " " " extra large	4.75
4552.	" " " " Byford's	2.75
4553.*	Tumor Forceps, Billroth's, large, eight prongs	3.50
4554.*	" " " " large and heavy, six prongs	4.50
4555.*	" " " " Collin's	5.00
4556.	" " " " Wilson's	4.00
4557.	" " " " Pean's	3.00
4558.	" " " " Byrnes'	3.50

All instruments illustrated are designated by a*.

Gynecological Instruments.

LIGATURE CARRIERS, FLUSHING TUBES, DRAINAGE TUBES, ETC.



4705.*	Ligature Carrier, Barrett's, curved on flat	\$1.75
4706.*	Reynolds', curved on flat	50
4707.*	Bellows, curved on flat	1.50
4708.*	Filoid Hemorrhoid Forceps, Millard's, curved 7 1/2 inch, light	\$2.00;
	heavy	3.00
4709.*	Drainage Teler Forceps, Kelly's, for holding cotton	2.50
4710.*	Drainage Tube, Thomas', glass, straight or curved, three sizes, 5, 6 and 7 inches long; each, \$2.25	25
4711.*	Price's, glass, 5, 6 and 7 inches long; each, \$2.25	25
4712.*	Abdominal Flushing Tube, Price's, lead rubber	50
4713.*	" " " Kelly's, metal	1.25
4714.*	" " " Kelly's	1.75
4715.*	" " " Clark's, jointed	2.25

Drainage Tubing, (see page 13)

All instruments illustrated are patented by U. S.

Gynecological Instruments.

THERMO-CAUTERIES.



4717

4717 * Thermo-Cautery, Krissel's latest improved; set consisting of one flat knife-shaped platinum point, one needle-shaped platinum point, reservoir handle with revolving dial stop-cock, and gasoline reservoir, all mounted on a nickel-plated metal plate; with double bath, complete, in morocco case \$22 91

The Krissel thermo-cautery comprises the latest improvements in cautery construction, the principal feature being a combined cautery point and Bunsen burner, the flame of which surrounds the platinum point entirely. The gas, which operates the burner as well as the point, is under perfect control by means of the dial stop-cock, which is plainly marked with directions. In this manner we dispense with the old method of heating the point by alcohol lamp or other separate device. The improved instrument is more simple to operate than any other style of thermo-cautery.

Every part of the outfit is carefully tested before leaving the factory. Full directions accompany each instrument.

*All instruments illustrated are designated by a *.*

Gynecological Instruments.

THERMO-CAUTERIES.



4718



4719

- 4718* Thermo-Cautery, Paquetin's; set of flat and round platinum points Nos. 1 and 2, metal reservoir, and lighter, with double helix; complete, in neat morocco case \$22 00

This cautery permits of the generation of permanent and controllable heat, with but slight loss through radiation. It is exceptionally well finished, and the various points being interchangeable, is at all times ready for any class of operation. Every instrument is carefully tested before leaving the factory, and if the accompanying printed instructions be carefully followed, no difficulty should be experienced in getting perfect results.

- 4719* Thermo-Cautery Point, No. 1, knife-shaped, flat 7 75
 No. 2, conical-shaped, round 7 75
 No. 3, knife-shaped, curved or flat 8 75

Other shapes can be supplied.

- 4720* " " Ballo, large, with silk setting, best quality 1 75

Notice.—The advance or decline in cost of platinum necessitates changes of prices accordingly; we will always give our patrons the lowest selling prices.

*All instruments illustrated are designated by a *.*



4748



4751



4753



4755-4757



4758



4759



4762



4761

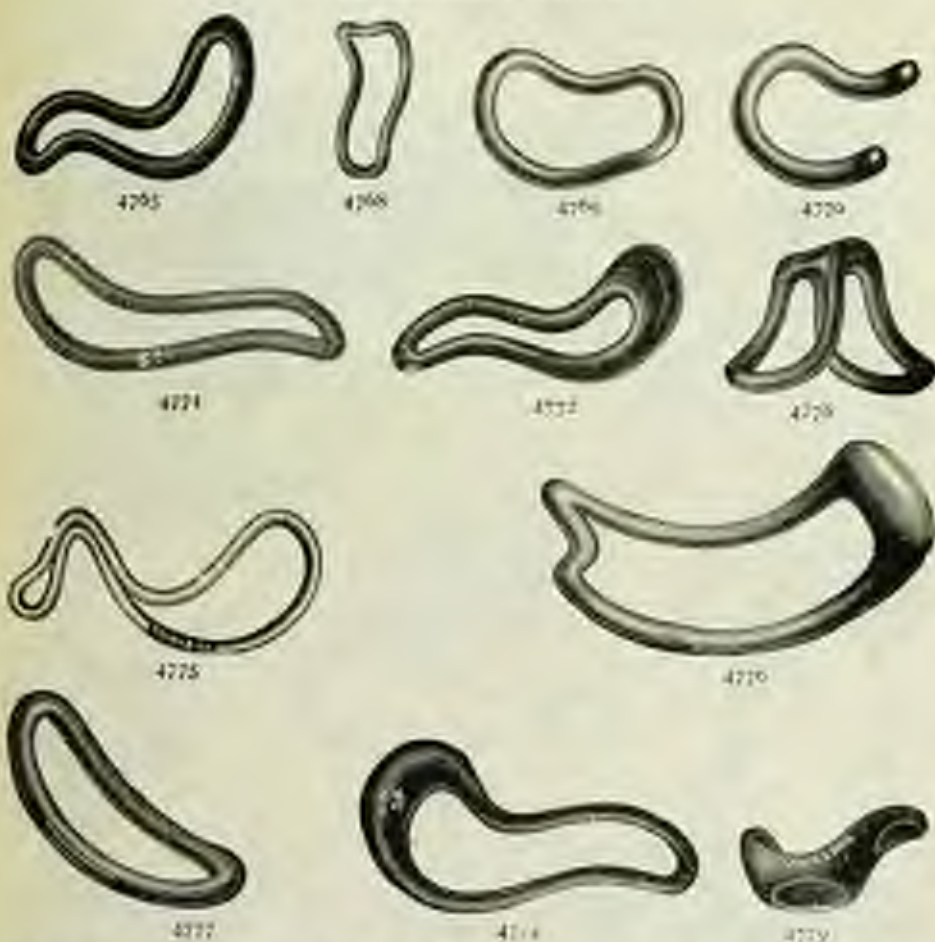


4748 ^a	Pessary, McIntosh's, Globe, four sizes, with Abdominal Supporter	\$1 00
4749 ^a	Conkey's, hard rubber, for complete prolapsus, four sizes, each	1 75
4752 ^a	Gosnell's Ring, with stem, all metal, silver plated, with belt	3 00
4753 ^a	Zwank's, hard rubber, with metal screw stem	1 25
4754 ^a	Wadsworth's, soft rubber Cup, with belt	3 00
4755 ^a	" " only	2 50
4756 ^a	Hodman's Anatomical Pessary, soft rubber, latest	1 50
4757 ^a	" " hard rubber, latest	2 50
4758 ^a	" " soft rubber, with sac, small size only	1 50
4760 ^a	Globe, hard rubber, four sizes, plain grade, \$1 25; best grade	1 75
4761 ^a	glass up to 2 1/2 inch, \$0 60; 2 1/2 and 2 3/4 inch each	75
4762 ^a	Hodge's, hollow hard rubber ring, with detachable stem, seven sizes, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90	
	\$2 25 \$2 75 \$3 00	

When ordering, give diameter of size desired.

Gynecological Instruments.

RETROVERSION PESSARIES.



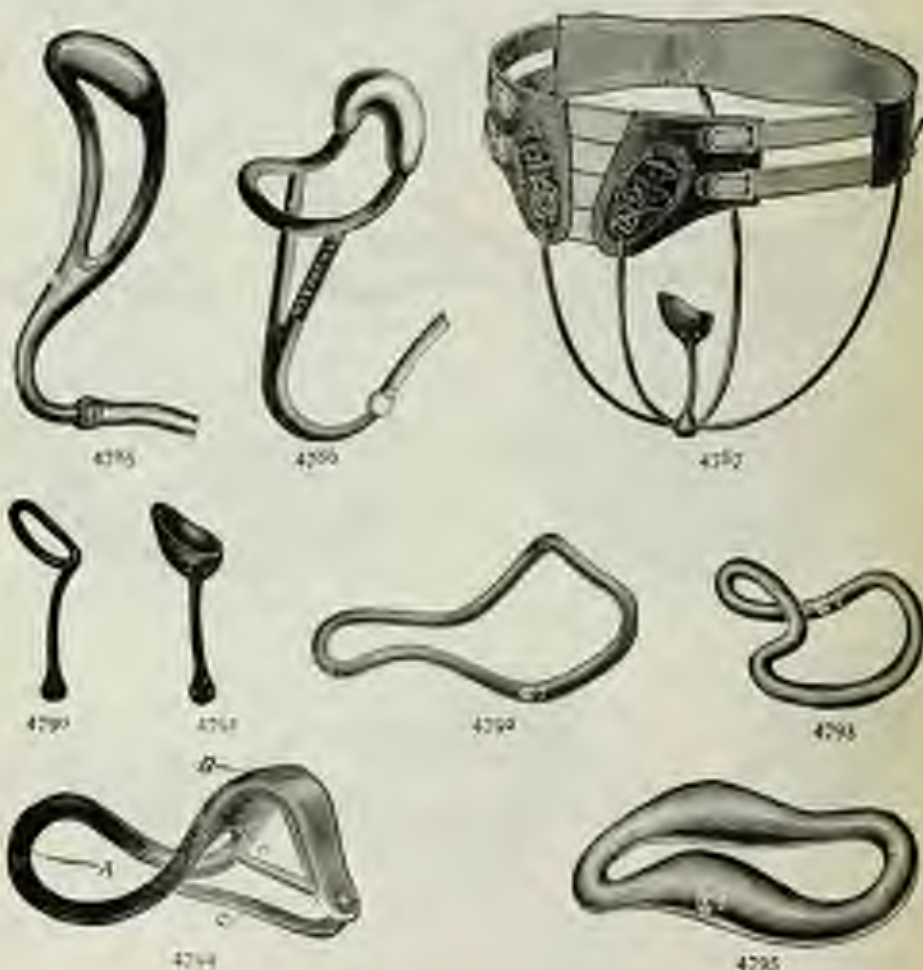
4795*	Pessary, Smith's, Hard Rubber, 7 sizes, 2½ to 3½ in. long x 1 in. diam., \$1.25 each	\$0.25
4796*	Patent Elastic, soft rubber covered, 6 sizes	75
4797*	Hodge's	6
4798*	Hard Rubber, 5 sizes, 2½ to 3½ in. long	25
4799*	Bow, 5 sizes, 2½ to 3½ in. long	25
4771*	Horseshoe, Hard Rubber, 2 sizes	25
4772*	Ernest-Smith's, Hard Rubber, 3 sizes	25
4773*	Thomas-Smith's, 5 sizes, 2½ to 3½ in. long	25
4774*	Patent Elastic, soft rubber covered, 2 sizes	1.00
4775*	modified by Munde, 5 sizes, 2½ to 3½ in. long	1.00
4776*	Thomas'	75
4777*	Noeggerath's, modified by Thomas	75
4778*	Hewitt's Hard Rubber Cradle	35
4779*	Gratiot-Hewitt's, modified by Thomas	1.00
4780*	Fowler's Hard Rubber	1.00
4781*	Battle's	40

When ordering, give diameter or length desired.

(If pessaries returned are discolored by use.)

Gynecological Instruments.

RETROVERSION AND CYSTOCELE PESSARIES.



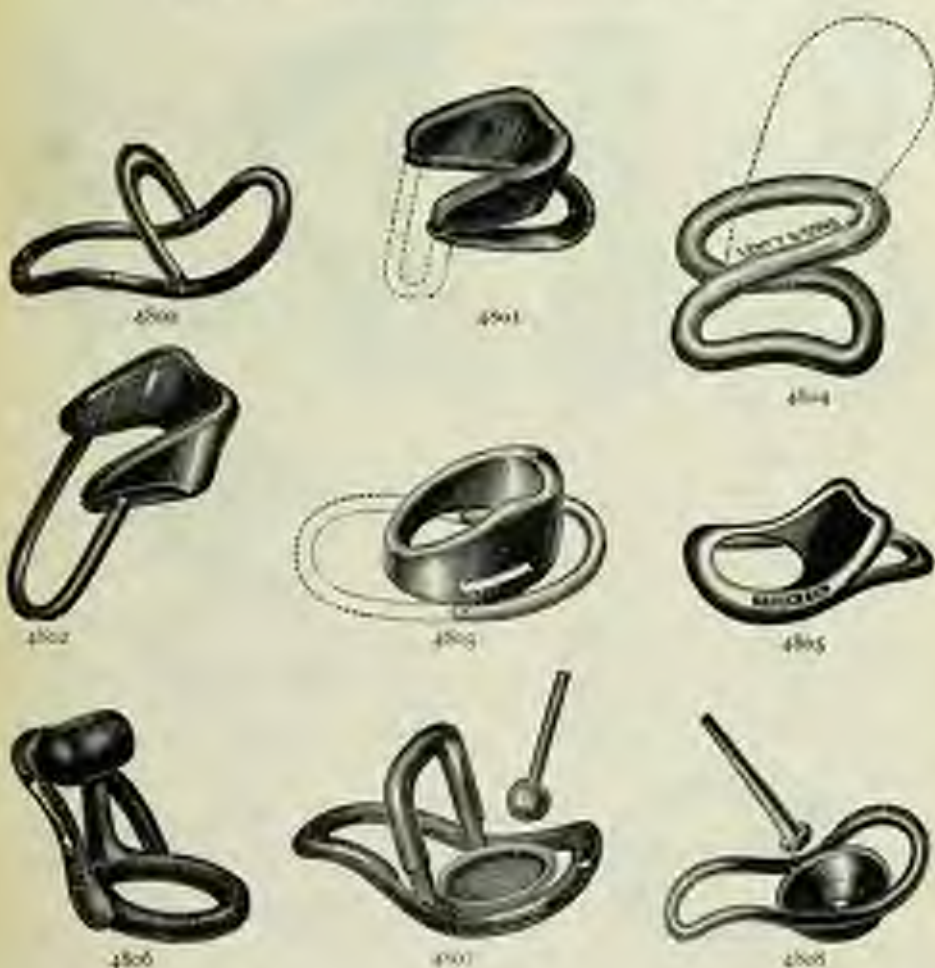
4785.*	Pessary, Thomas-Cutter's, with belt	\$1.50
4786.*	" " " " cervical rest and belt	2.00
4787.*	McIntosh's, Cup, with abdominal supporter, of fine pale leather	2.50
4788.*	" " Ring, " " "	2.50
4789.*	" " " " " " " " " "	1.25
4790.*	" " " " " " " " " "	2.00
4791.*	" " " " " " " " " "	1.25
4792.*	" " " " " " " " " "	2.00
4793.*	" " " " " " " " " "	1.25
4794.*	" " " " " " " " " "	1.25
4795.*	" " " " " " " " " "	1.25

When Ordering, Give Diameter or Length Desired.

All instruments illustrated are designated by a *.

Gynecological Instruments.

ANTEVERSION AND ANTEFLEXION PESSARIES.



4800.*	Anteversion Pessary, Thomas' first pattern	\$1.00
4801.*	" " " third "	1.00
4802.*	" " " with lever	1.25
4803.*	" " " Munde's modified Thomas', with lever	1.25
4804.*	" " " Gelming's, 5 sizes, 20 to 60 millimeters	.35
4805.*	" " " Thomas', 5th pattern	1.75
4806.*	Anteflexion " " with "	1.75
4807.*	" " " with intra-uterine stem	2.00
4808.*	Latroversion " " with intra-uterine stem	1.75

When Ordering, Give Diameter or Length Desired.

All instruments illustrated are designated by a *

Gynecological Instruments.

ANTEVERSION PLISSARTES.



4512.*	Tessary, Catter's loop, with lock	\$1.75
4513.	" Thomas-Cutter's loop, with bell	1.90
4514.*	" " " " length pattern	1.15
4515.*	" McIntosh's Cup with Abolitionist Supporter	2.30
4516.	" Ring " "	2.90
4517.*	" Antislavery Goliath's	1.00
4518.*	" Antislavery Hitchcock's	.75
4519.*	" Woodward's	1.75
4520.	" Knickerbocker's	1.25
4521.	" Cole's	1.25
4522.*	" Flowering Marshall's, right or left	each 1.25
4523.	" " " double	1.25

When ordering, give discount to Long Beach.

All differences observed are attributed to a

Nephrectomy Instruments.



4880



4881



4885



4887



4893

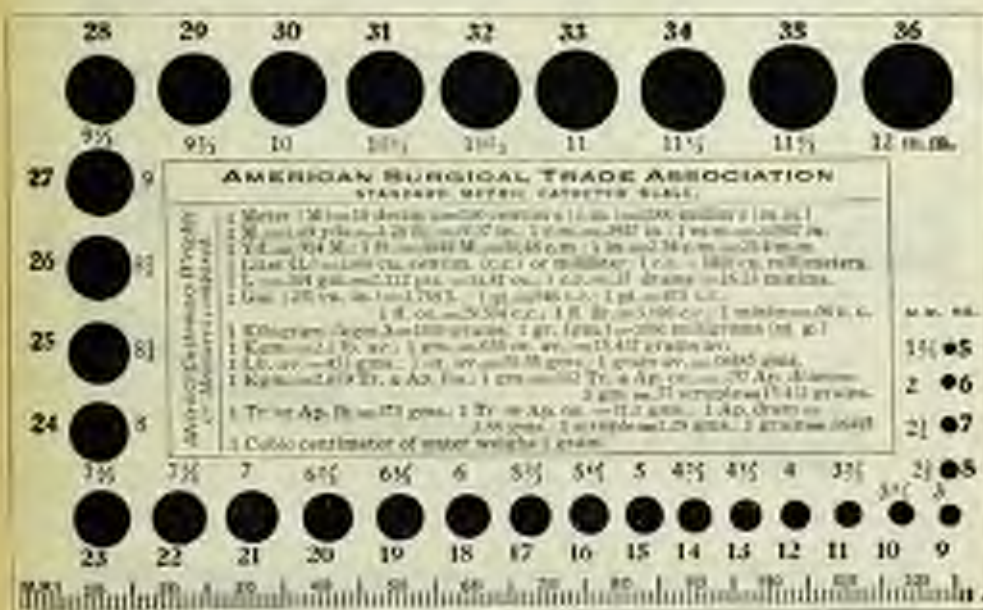
4880*	Kidney Elevating Forceps, Lower's, with screw lock	\$4.00
4881*	" " " Ashton's, " Colin's	6.00
4883*	" " " Sherck's " button	7.50
4885*	" Clamp " Lower's " arrow	4.50
4886*	" " " Stille's, curved, serrated blades	5.00
4887*	" " " Gayon's, " " with spines	3.50
4889*	" Elevator, Taffee's, curved on flat	1.50
4891*	" Spatula, " " "	.75
4892*	" " Legue's, with handle	2.25
4895*	" Retractor, Morris', double end, blades 3 x 4 cm.	4.25
4896*	" " " " " 4 1/2 x 5 "	4.25
4897*	" " " " " 5 1/2 x 6 1/2 "	4.50
4899*	Entoury, straight, blade, Taffee's	2.00

All instruments illustrated are designated by a *.

SECTION XI.

Male Urethral Instruments.

SCALE OR GAUGE FOR GRADING THE SIZES OF BOUGIES AND CATHETERS.



The American Surgical Trade Association, an association of manufacturers and dealers of surgical instruments, formed for the promotion of improved trade conditions and for the standardizing, wherever practicable, of the various instruments, have adopted the scale as illustrated above.

It is the French or Metric Scale, the outer numbers indicating the number of millimeters of circumference. The inner numbers are added merely for further guidance and indicate the number of millimeters of diameter.

We would respectfully request that when ordering such instruments as catheters, bougies, etc., only this French scale be used. We accomplish thereby a uniformity in the sizes of the instruments which will be appreciated by the physician, whereas it will also avoid the annoyance of misunderstandings in filling orders.

All catheters, bougies and other instruments of this character will be stamped only with their respective French scale numbers.

Card Scale Free on Request.

All articles illustrated are designed by a *.

Male Urethral Instruments.

SOLID END ELASTIC WEB CATHETERS.



4040



4041



4042



4043



4044

Sterilizable Elastic Web Catheters; Best French Make; Woven Eyes and Funnel End.

		Dozen	Each
4040. ⁿ	Catheter, gum elastic, woven web, cylindrical point	\$5.00	\$0.30
4041. ⁿ	" " " " olive point	7.50	.25
4042. ⁿ	" " " " conical point	8.00	.25
4043. ⁿ	" " " " Mercier's, elbow point	2.50	.25
4044. ⁿ	" " " " double elbow point	6.00	.50
4045. ⁿ	" " " " olive web, Hartman's, flat, oval, elbow point		1.50
4047.	" " " " white coated, cylindrical point		1.50
4048.	" " " " olive point		1.50
4049.	" " " " Mercier's, elbow point		1.50

The presence of blood or mucus can readily be seen on the white catheters.

These French Catheters are the highest grade made in the world; the gum coating is very durable, highly polished and extremely smooth inside; the inside of the catheters is also coated by the same material, preventing absorption of fluids by the texture.

In sterilizing by means of boiling water the elastic catheters and bougies should be kept immersed from three to five minutes, which will actually suffice for carrying away lubricants and will prove absolutely germicidal. They should be removed in gauze or a towel to prevent direct contact with the bottom of the sterilizer, and should not be cooled up.

		Dozen	Each
4054.	Catheter, gum elastic, woven web, cylindrical	\$1.50	\$0.10
4055.	" " " " olive point	5.00	.50
4057.	" " " " Mercier's, elbow point	5.00	.50
4066.	English, cotton web, cylindrical, No. 12, English scale (approx. 12-22, French scale)	50	10

Always order by French scale, see page 399.

Male Urethral Instruments.

CATHETERS.



4971a



4970-4971



4972



4975



4973



4974



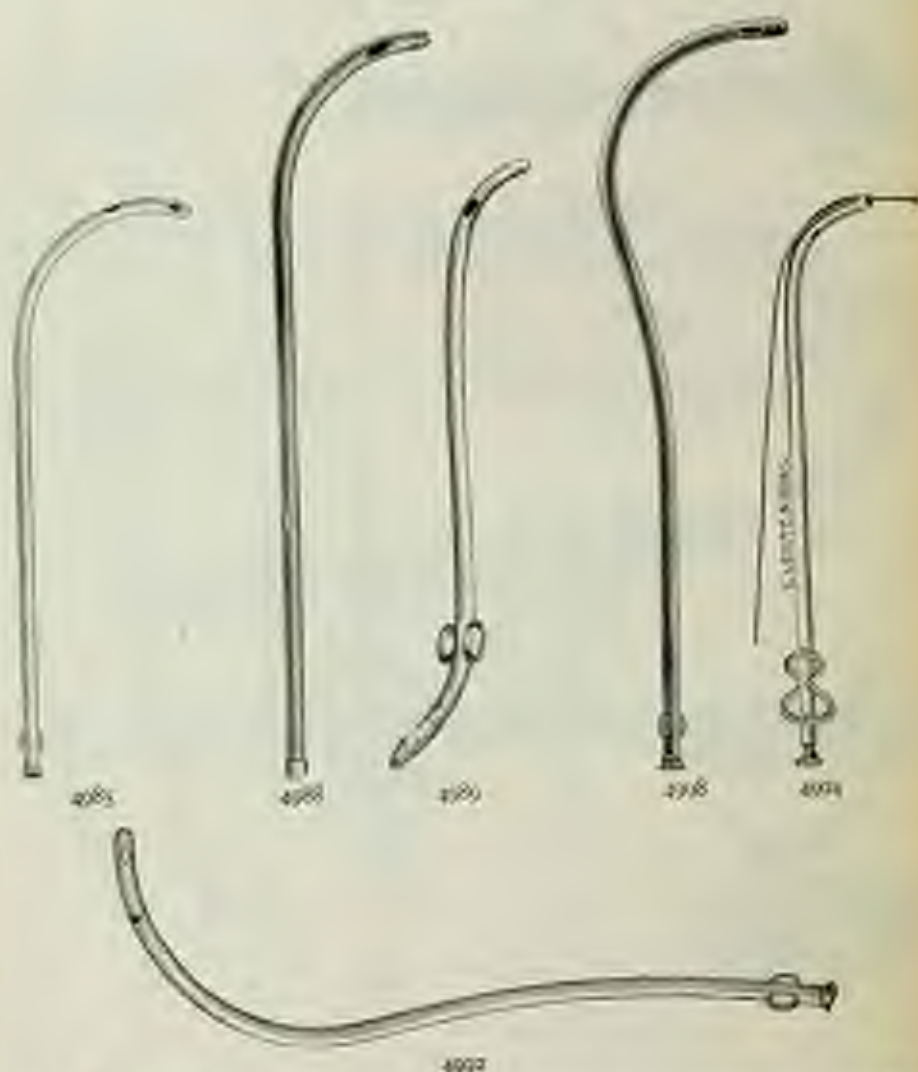
4971

4970 ^a	Catheter, soft rubber, with silver tip, size 9 to 27	doz.	\$2.50, each	\$0.40
4971 ^a	Malver's, soft rubber	27 34	2.50	.40
4972 ^a	Malver's, soft rubber			.40
4973 ^a	Malver's with central joint and ground silver tip			1.00
4974 ^a	Power's self-retaining, stainless steel			.80
4975 ^a	Holder, made of the handle of soft rubber			.60
4976 ^a	Guide, one spiral, for introducing soft rubber Catheters			.25
4977 ^a	Tube, double, with distal for soft rubber Catheters, for washing out the bladder			.60
4978 ^a	Tube, double, with distal for soft rubber Catheters, for washing out the bladder			.40
4979 ^a	Case, brass, rectangular, for holding soft rubber catheters, with small compartments in cover and right-hand lid for vaseline or other lubricant			.90
4980 ^a	Case, brass, rectangular, for holding soft rubber catheters, with small compartments in cover and right-hand lid for vaseline or other lubricant			.60

Always order by French scale, see page 109.

Male Urethral Instruments.

METALLIC CATHETERS.



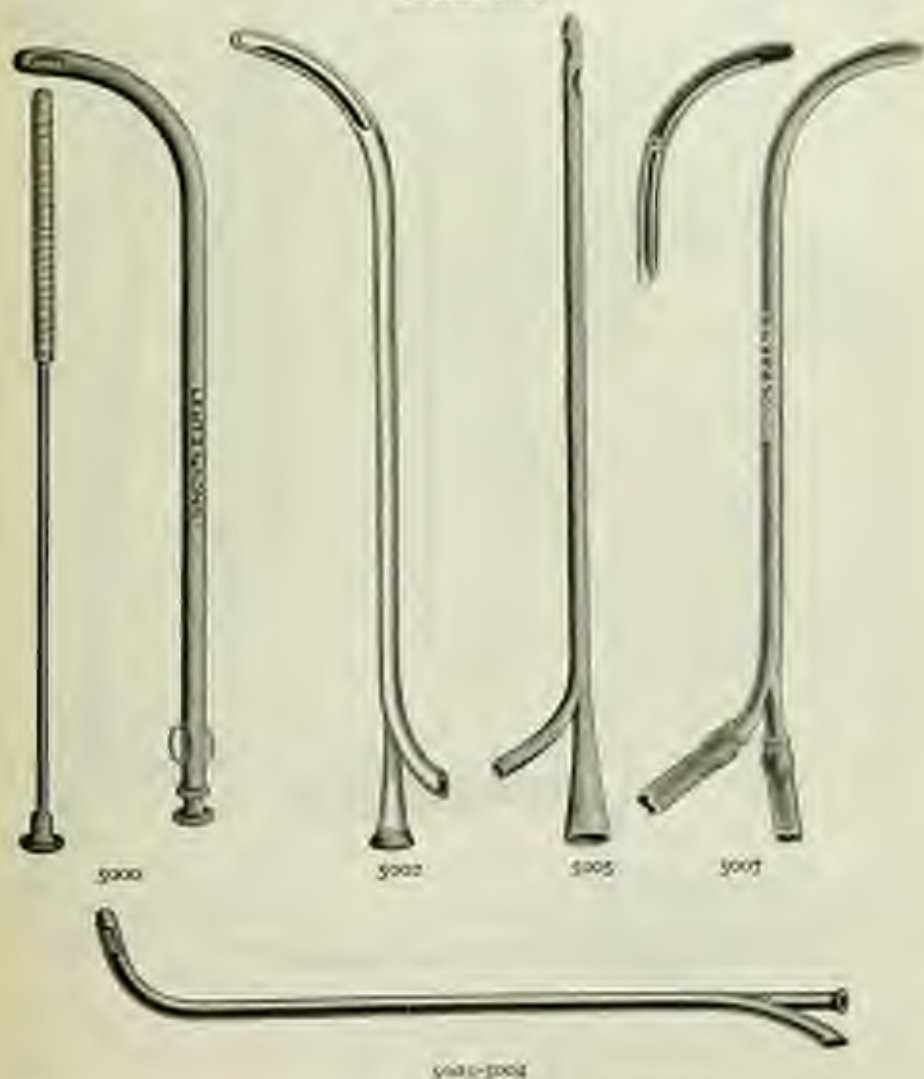
4085.*	Catheter, German silver, triple silver-plated	\$0.75
4086.*	sterling " (hard) up to 21 Fr. Sc.	\$1.75; larger sizes, each
4087.*	brass, nickel-plated, plain grade	.40
4088.*	double curved, Sykes's silver-plated, 90c; silver, \$2.00 to	2.50
4089.*	spiral, metallic, Gross'	1.00
4090.*	Prostatic silver-plated, 90c; silver, \$2.00 to	2.00
4091.*	" Benjamin metal, pliable	1.00
4092.*	tunneled, Gosley's, for filiform bougies, plated	1.00
4093.*	" prostatic, pliable, plated	1.25
4094.*	White's, prostatic, large curve, silver-plated . . . . .	.90
4095.*	" silver, according to size \$0.25 to	3.75

Always order by French Scale, see page 399.

All instruments illustrated are designated by a *.

Male Urethral Instruments.

CATHETERS.

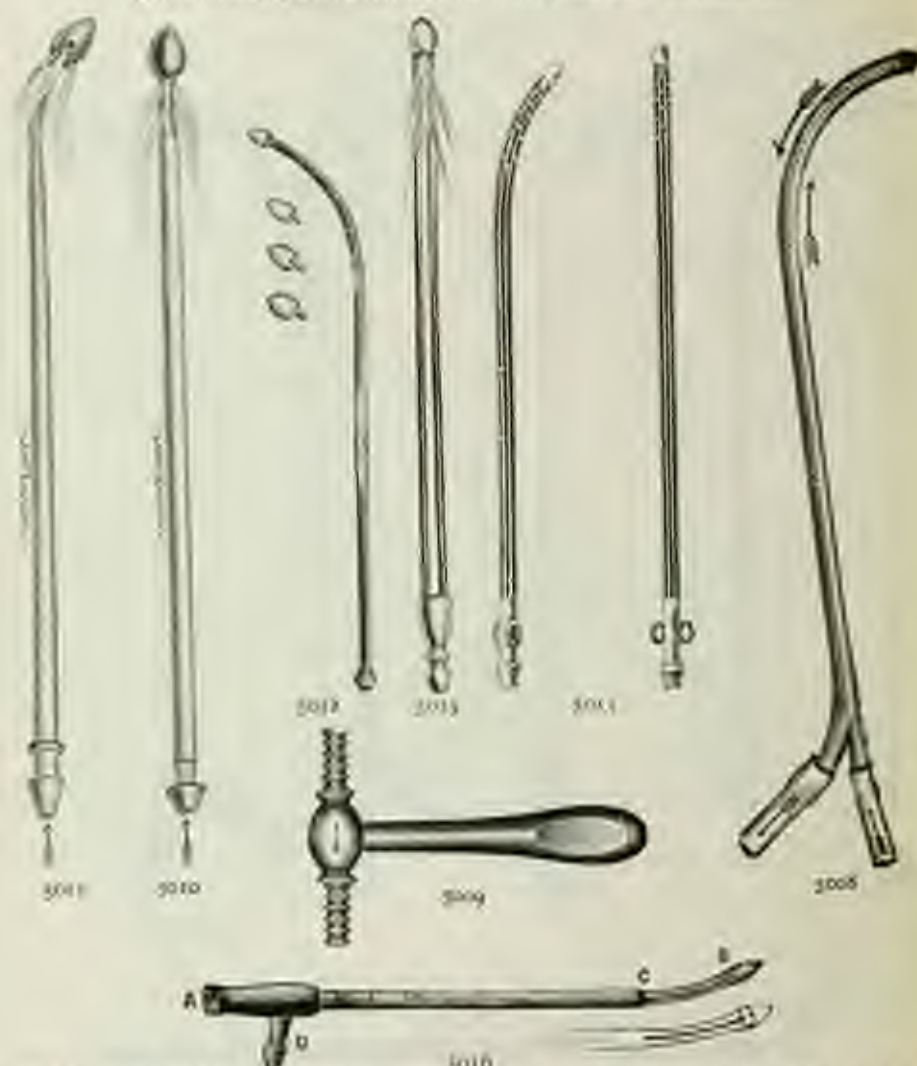


- 5000.* Catheter, for blood and mucus, Willard's with spiral illuminator . . . plated \$2.50
 5001. " " " " Agnew's . . . " 1.50
 5002.* " double current, Nott's . . . silver-plated, \$1.00; silver 1.75
 5003.* " " " with oral eyes . . . 1.00; " 1.75
 5004.* " " " brass, nickel-plated 75
 5005.* " " " " Superior Linsen " web 1.25
 5006. " " " soft rubber, Harby's 1.25
 5007.* Psychrophon, or double current-cooling sound, Martin's improved, plated,
 sizes 25 to 24 Fr. scale, \$3.00; 25 to 23, \$3.40; 24 to 20 . . . 4.00

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

CATHETERS, RETROJECTING AND DOUBLE CURRENT.

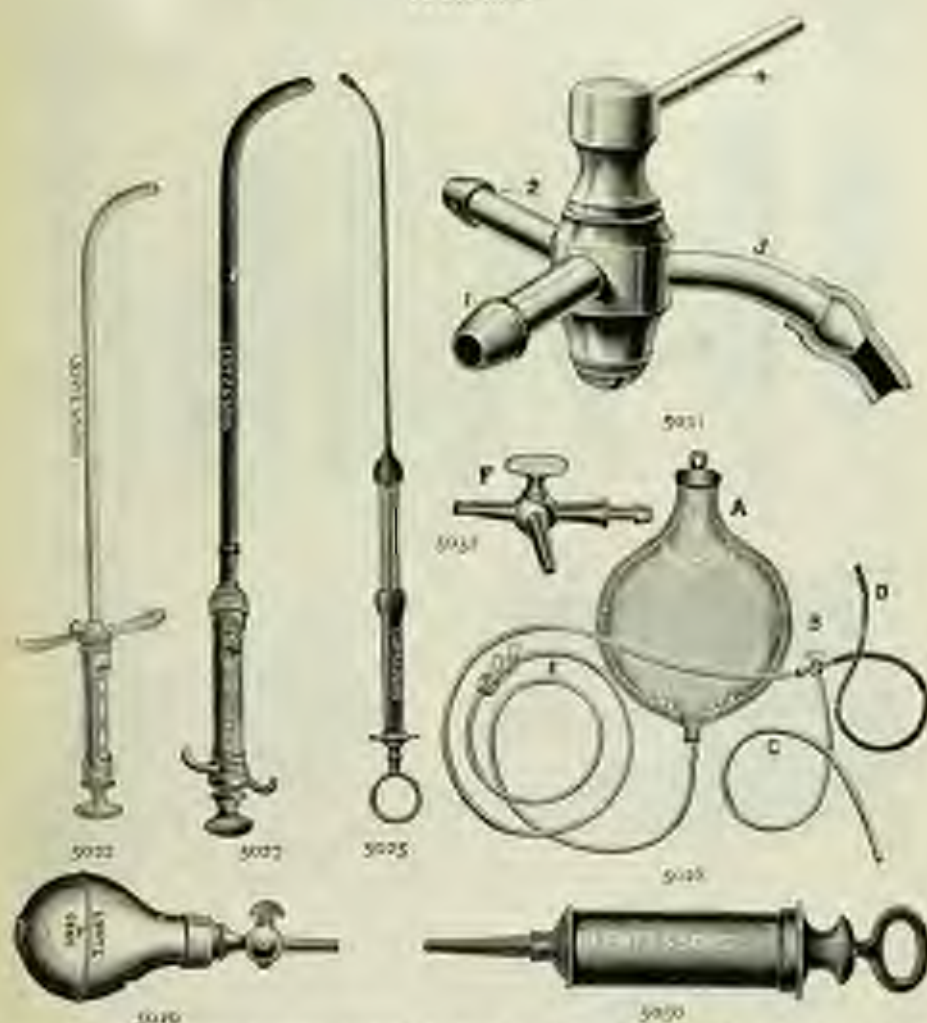


5008. ^b	Psychrotherm, or double current-cooling sound, Winterstein's, plated	\$1 50
5009. ^a	Wissner's, plated	1 25
5010. ^a	Catheter, Retrojecting, or back-flow tube, straight, plated	45
5011. ^a	" " " " curved, conical, plated	55
5012. ^a	" " " " Pratt's, with four bulbs	1 25
5013. ^a	" " " " Anglin's, 10 in. long, straight, 75c.; curved, . . .	1 10
5014. ^a	" " " " with grooved sides	65
5015. ^a	" " " " Johnson's, plated, and irrigating, b. v. Waechner's, with 32 oz. hard rubber syringe	2 00
5016. ^a	Irrigating Catheter, Strass', 13 sizes, 18 to 30, French	2 00
5017. ^a	Psychrotherm, double current, with elongator	2 00

Especially valuable in the treatment of chronic cystitis.

Male Urethral Instruments.

SYRINGES.



5022.*	Deep Urethral Syringe, Keyes' or Ultzman's, silver tube	\$2.25; in case	\$2.75
5023.	" " " Ultzman's, silver tube	2.25; "	2.75
5024.	" " " Woodward's modified Keyes', with probe-pointed, pure silver pliable tube		3.75
5025.	" " " Barnstead's, with h. r. tube		3.50
5026.	" " " Taylor-Barnstead's, with two h. r. tubes		4.25
5027.*	" " " or Insulator, Martin's, with h. r. tube		4.50
5028.*	Syringe, Van Buren's, with stop-cock and soft rubber Catheter, for washing out the bladder		2.50
5029.*	" " " with stop-cock, for hydrocele or for washing out the bladder		1.50
5030.*	" " " Ultzman's, hard rubber with conical point for attaching Catheter, 2 nos., \$1.50; 4 nos., \$1.75; 5 nos.,		2.25
5031.*	Stop-cock, Fock's, two way, or Perfection Bladder Washer, can be used with any Fowles's Syringe and Catheter		75
5032.*	" " Keyes', two way		85

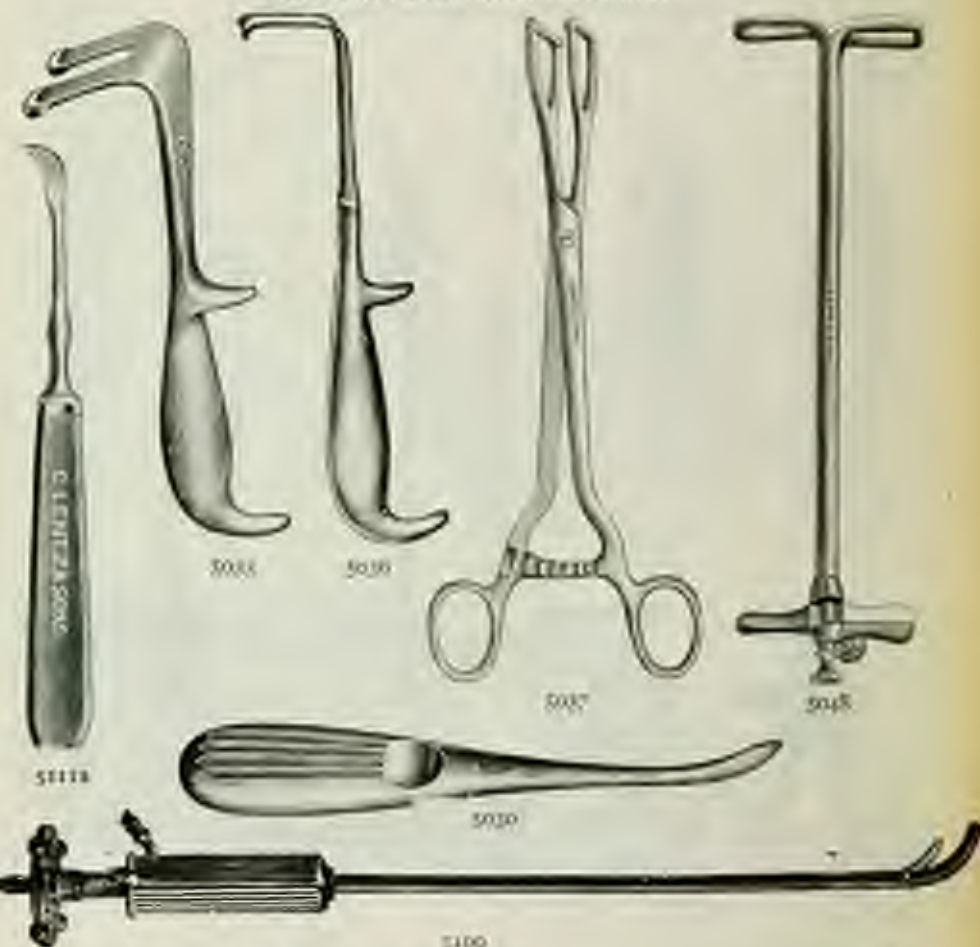
Male Urethral Instruments.

SYRINGES AND OINTMENT APPLICATORS.



- 4900.* Syringe, Janet's, modified by Frank, glass, three sizes;
60 c.c., \$4.50; 100 c.c., \$5.50; 150 c.c., \$6.00
- 4901.* " " "Perfection," all metal, with sterilizable packing, three sizes;
60 c.c., \$5.50; 100 c.c., \$4.00; 150 c.c., 4.50
- 4902.* " Bolton-Bangs', hard rubber, \$1.00; with h. c. tubes 3.00
- 4903.* " Tube, silver, for Bolton-Bangs' Syringe, Nos. 15 to 28, French
scale, according to size, from \$2.75 to \$5.00 extra.
- 4904.* " Chetwood's, glass, 4 oz., with metal fixture 2.50
- 4905.* " Calhoun, Dick's, silver 3.75
- 4906.* Deep Syringe, Guyon's, with elastic catheter 4 ft. long, in case 3.75
- 4907.* Alterating Cut-off, Chetwood's, used with irrigators 2.75
- 4908.* Irrigating Nozzle, Chetwood's, glass 40
- 4909.* Ointment Applicator, Young's, original 4.25
- 4910.* " " "Improved 2.25
- 5003.* " " Roblin's, with two tubes; the short, straight
tube for rectal applications 2.50
- 5004.* " " Van Buren's, cupped bend 75
- 5044.* Force Camble, Lallemand's, silver 4.00

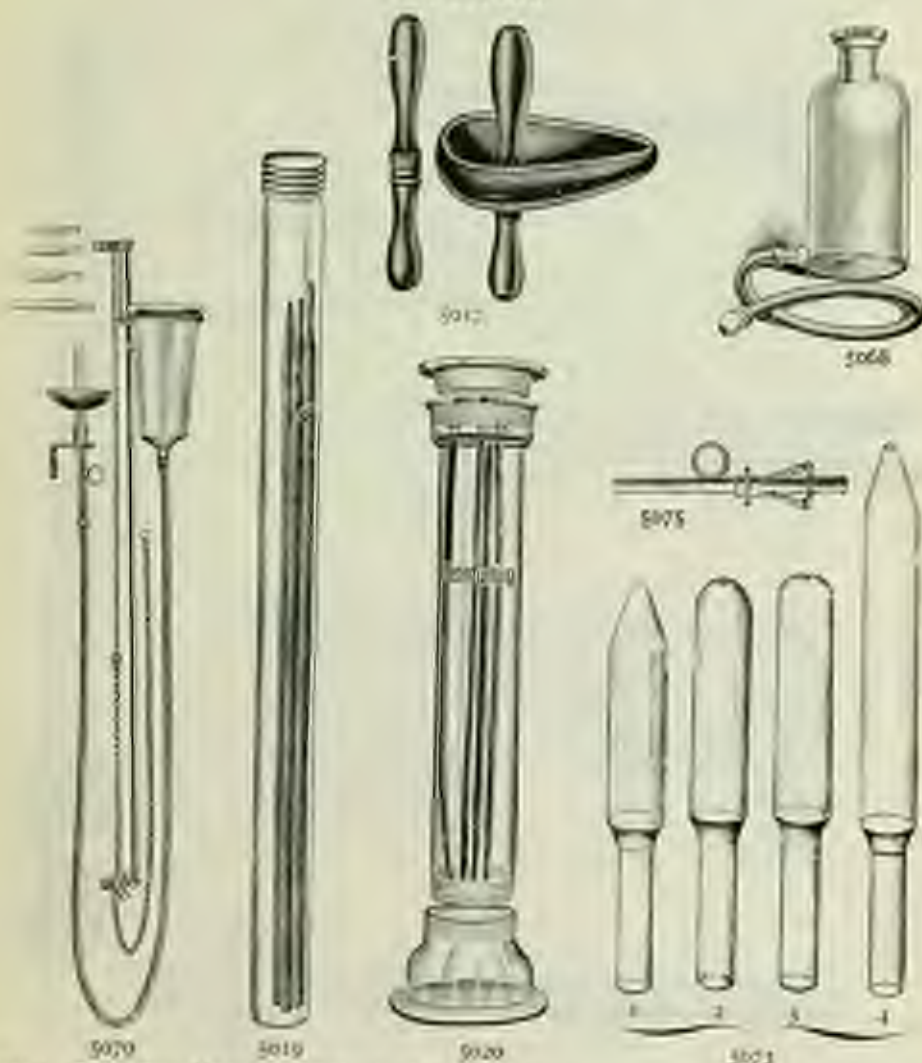
Male Urethral Instruments FOR PERINEAL PROSTATECTOMY.



5033*	Prostatectomy Retractor, Young's, large	\$4.00
5034	" " " slightly arched	3.50
5035	" " " large, blade 1 1/4 inches wide	3.25
5036*	" " " small, " 1/2 inch	2.75
5037*	Prostatic Lobe Forceps, " large or small	each 3.00
5046	" Maiseur, Swisher's, metal, with set-screw handle	1.75
5047	" Dufaux's, soft rubber, with hard rubber handle	6.50
5048*	" Tractor, Young's	6.50
5049	" Parker-Syme's, rubber, with metal styli	2.00
5050*	" Elevator, Young's	2.50
5051	" Depressor, Guitars'	1.50
5052	Staff for perineal prostatectomy, Ferguson's, sizes 20 and 28	each 1.50
5053	Prostatic Forceps, Ferguson's, cutting edge	4.50
5054	" Guitars', serrated	4.50
5109*	Incise (Bosni-Frendenberg), with threaded regulator for controlling the platinum iridium blade, and with water cooling attachment. The instrument using approximately 45 to 50 amperes of current. Fitted with insulating cord and slip contact in case	40.00
5111	" Dr. Hugh H. Young's (Baltimore) modification of Bosni-Frendenberg's, with 4 blades, cable and case	75.00
5112*	Prostatectomy Knife, Mayo-Alford's	1.50

Male Urethral Instruments.

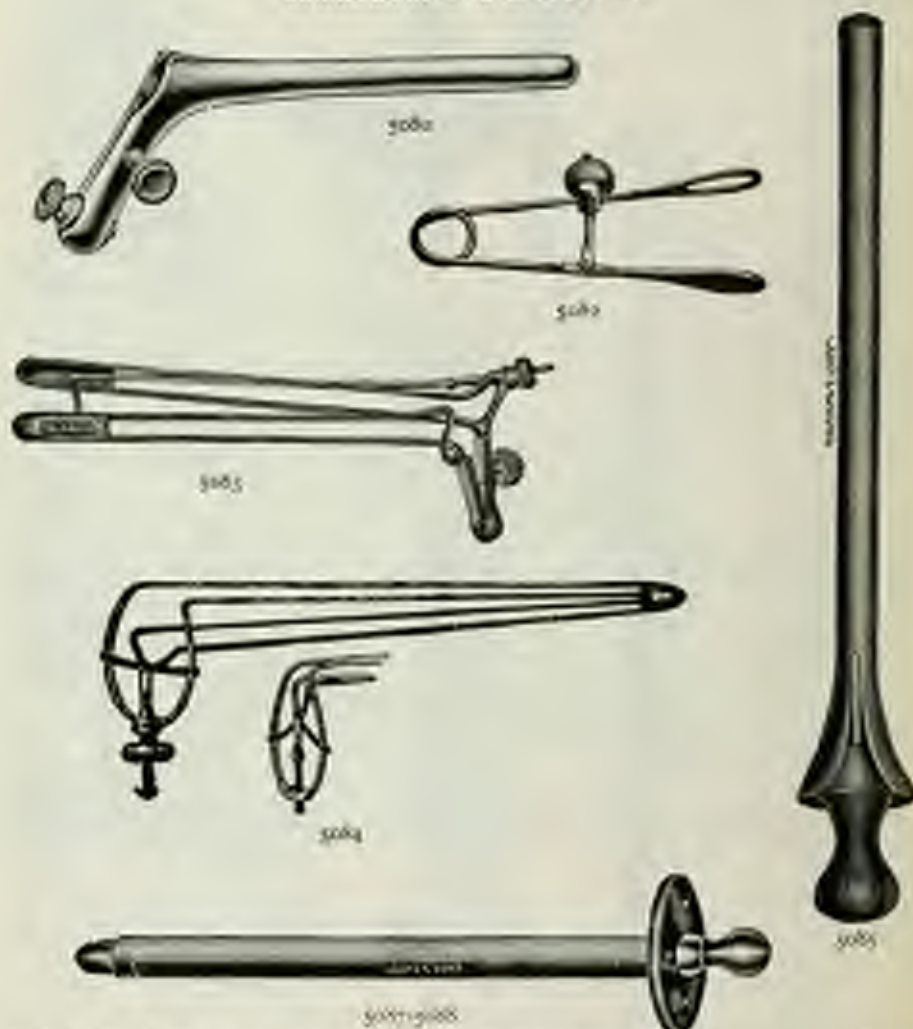
IRRIGATORS.



- | | | |
|--------|---|-----------------------|
| 5017.* | Irrigating Nozzle, Lydston's, hard rubber | \$2.00 |
| 5018. | " " John's Hospital, hard rubber, conical | .40 |
| 5018a. | " " Ashcraft's, glass | do., \$1.00 each |
| 5019.* | Catheter Tube, glass | 50 |
| 5020.* | " " | 50 |
| 5020.* | Irrigator, Heewitz's, 16-oz. graduated, with tubing and nozzle | 4.00 |
| 5020.* | Valentine's, for intravascular hydrostatic irrigation for the successful treatment of gonorrhea, etc. Complete apparatus with sliding bracket, by which the percolator can be moved upward and downward over a nickel-plated steel rail on two metal wheels, and guided by a flat metal safety chain over a loose metal pulley; with four glass nozzles and one thousand tablets of permanganate of potash. | 1.50 |
| 5073.* | Nozzles, extra, Nos. 1 to 4 | 5.00 |
| 5074. | Shield, " glass or metal | per doz., \$1.00 each |
| 5075.* | Stop-cock, " | 75 |
| 5076. | Tubing, " double funnel end, pure gum | 75 |
| | | 1.50 |

Male Urethral Instruments.

SPECULA AND ENDOSCOPES.



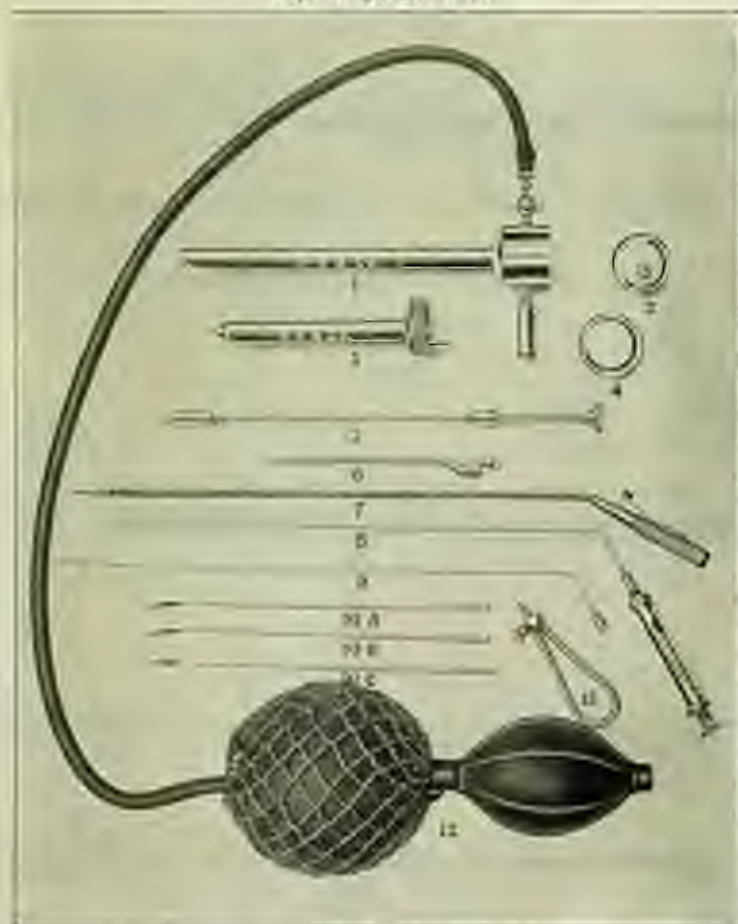
5080.*	Speculum, Carr's, improved, smooth, wrought metal	1.75
5081.	" " long, aluminum	1.50
5082.*	" " Otis' (Mezma Dilator), plated	2.25
5083.*	" " Brown's, plated	2.25
5084.*	" " Smith's, plated	2.50
5085.*	Endoscope, Otis', hard rubber various sizes	each .50
5086.	" " metal, plated	1.00

The Metal Endoscope gives a better light, and being made of thinner material, it is possible to get a larger inside caliber and a correspondingly better view.

5087.*	" " Klotz's, silver plated	regular size, \$1.50; large size 2.00
5088.*	" " " "	2.50

All instruments illustrated are designated by a *.

Male Urethral Instruments. URETHROSCOPES.



5089

5089.* Air-Inflating Illuminating Urethroscope, Ernest G. Mark's; set of instruments in leather covered case. \$24.00

CONTENTS.

One Urethral Tube, either No. 22, 24, 26 or 28, either male (1) or female (3), with obturator (5); one Universal Head (shown attached to 1); one Light Carrier (6), either male or female; one Operating Window (2); one Observation Window (4); one Knife, either straight safe-edge (10A), or bent safe-edge (10B), or double edge (10C); one Handle (11) for knives; one Syringe (8); one Cannula, 14 karat gold (9); one Cannula, plated (9); one Rubber Dilating Bulb, double (12); one extra Lamp; one dozen Rubber Nipples; one pair Conducting Cords.

N. B.—Cautery Instrument (7) not included.

EXTRA INSTRUMENTS.

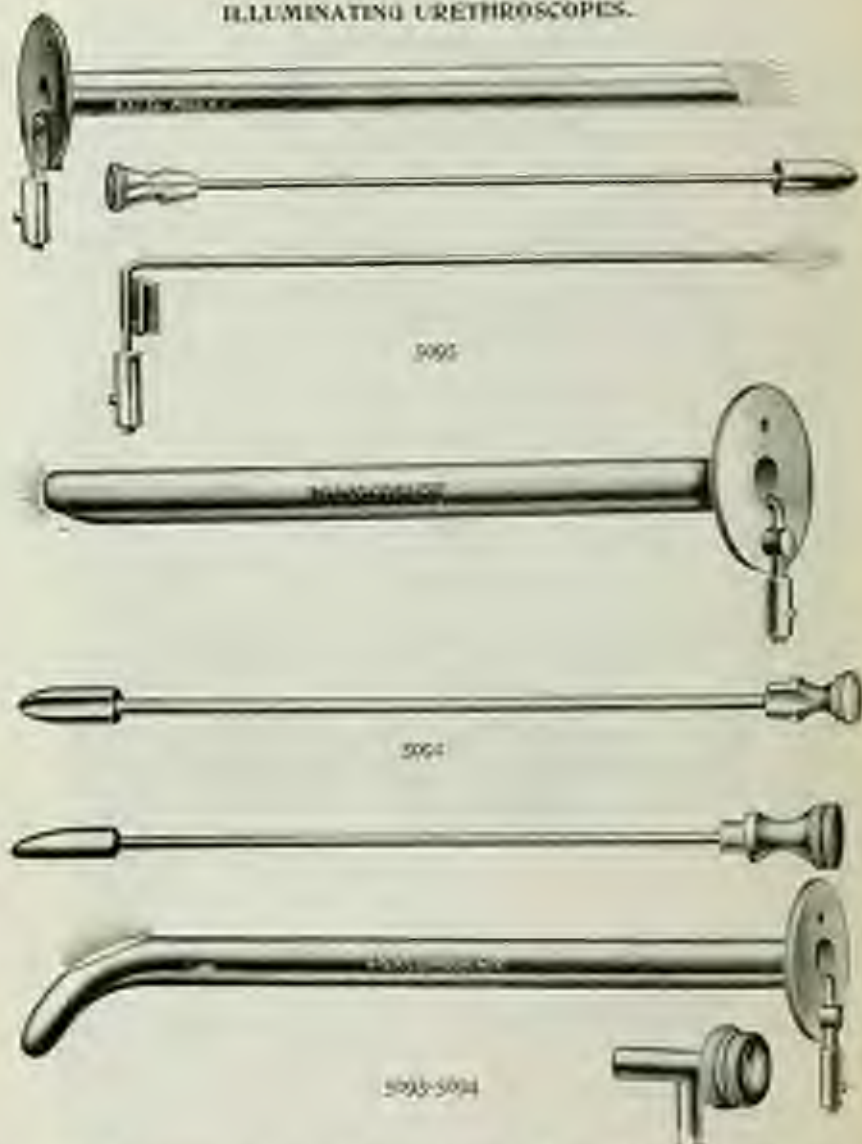
Urethral Tubes (1 and 3), interchangeable	each \$4.00
Swanberg's Posterior Tube, either No. 22, 24 or 26	6.00
Light Carriers (6)	2.25
Knives (10A, 10B, 10C)	1.00
Lamps	50
Rubber Nipples	per dozen 25

When any extra instruments are ordered at same time with complete set, they are also fitted into the case.

For Batteries and Electric Lamp Controllers see Electrical Section.

Urethroscopes.

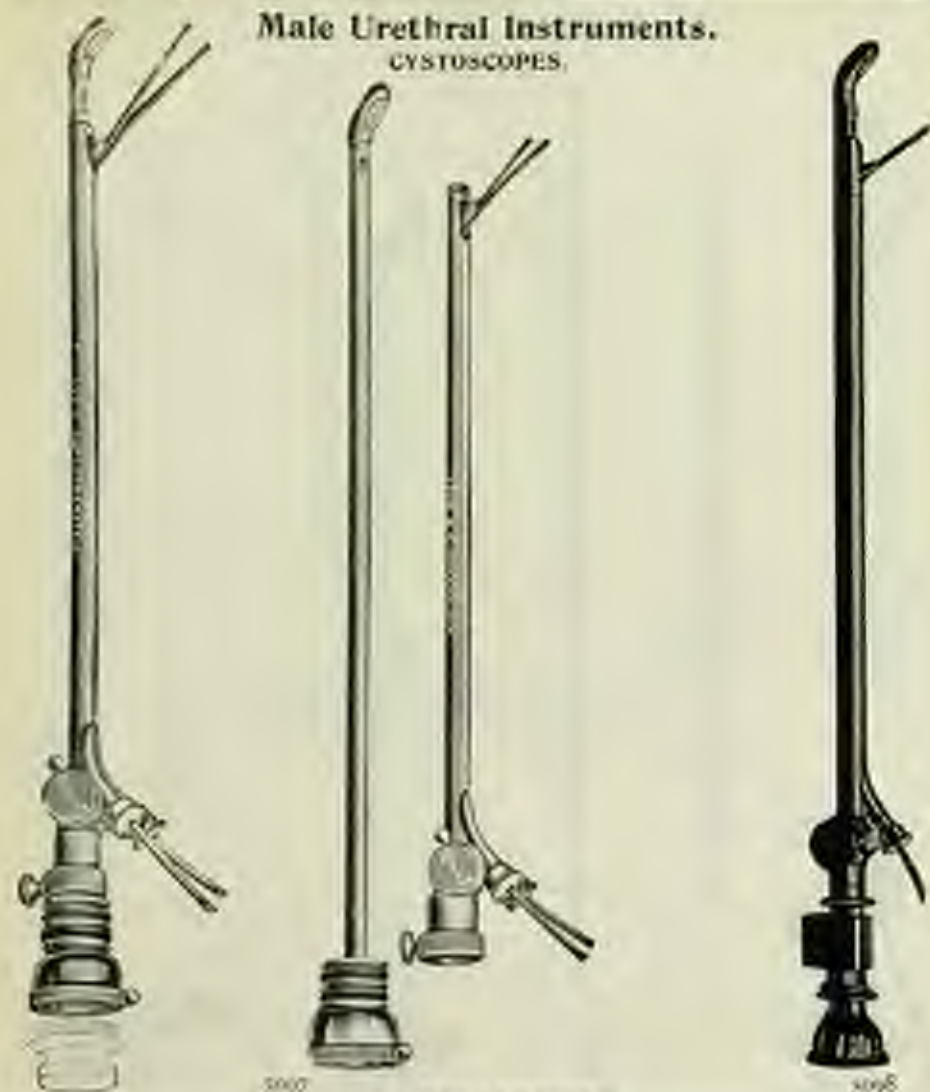
ILLUMINATING URETHROSCOPES.



- 3091.* Koch's Anterior, any size, including obturator (\$2.50), light carrier (\$2.25) and cords (\$2.00) set \$6.75
- 3092.* Lentz's " any size, including obturator (\$1.50), light carrier (\$2.75) and cords (\$1.00) set \$5.25
- 3093.* Swaine's Posterior, with auxiliary tube to accommodate light carrier, furnished in sizes either Nos. 22, 24 or 26, with obturator and light carrier set \$8.00
- 3094.* " " with obturator, light carrier, window attachment and dilating balls set 12.00
- 3095.* Valentine's Anterior, any size, including obturator (\$2.50), light carrier (\$2.25) and cords (\$1.00) set \$5.75
- Extra lamps, 50 cents each.

For Batteries and Electric Lamp Controllers see Electrical Section.

Male Urethral Instruments. CYSTOSCOPES.



Illuminating Cystoscopes.

5007.* Bierhoff's, combination examining, double catheterizing and irrigating.

Made by Loewenstein-Berlin. Complete, with extra lamp, conducting cords, two small stop-cocks and two ureter catheters, in case, \$80 00
Extra Lamps, with fitting, each 1 50

The Bierhoff's Cystoscope consists primarily of a plain examining cystoscope (Fig. 1), size No. 16 French scale, complete in itself. The beak and lamp are removable and transferable to an outer sheath (Fig. 2), size 21 French scale, which is provided with a double channel with catheter director, and permits a simultaneous introduction of two No. 6 ureter catheters. Figure 3 shows completely assembled instrument. Irrigation is made through the catheter channels.

5098.* Nitze's-Schlagintweit's, improved, single catheterizing and irrigating,

with catheter director. Complete, with extra lamp, conducting cords, two-way stop-cock, small stop-cock for catheter channel, and one ureter catheter, \$60 00
Extra Lamps, with fitting, each 1 50

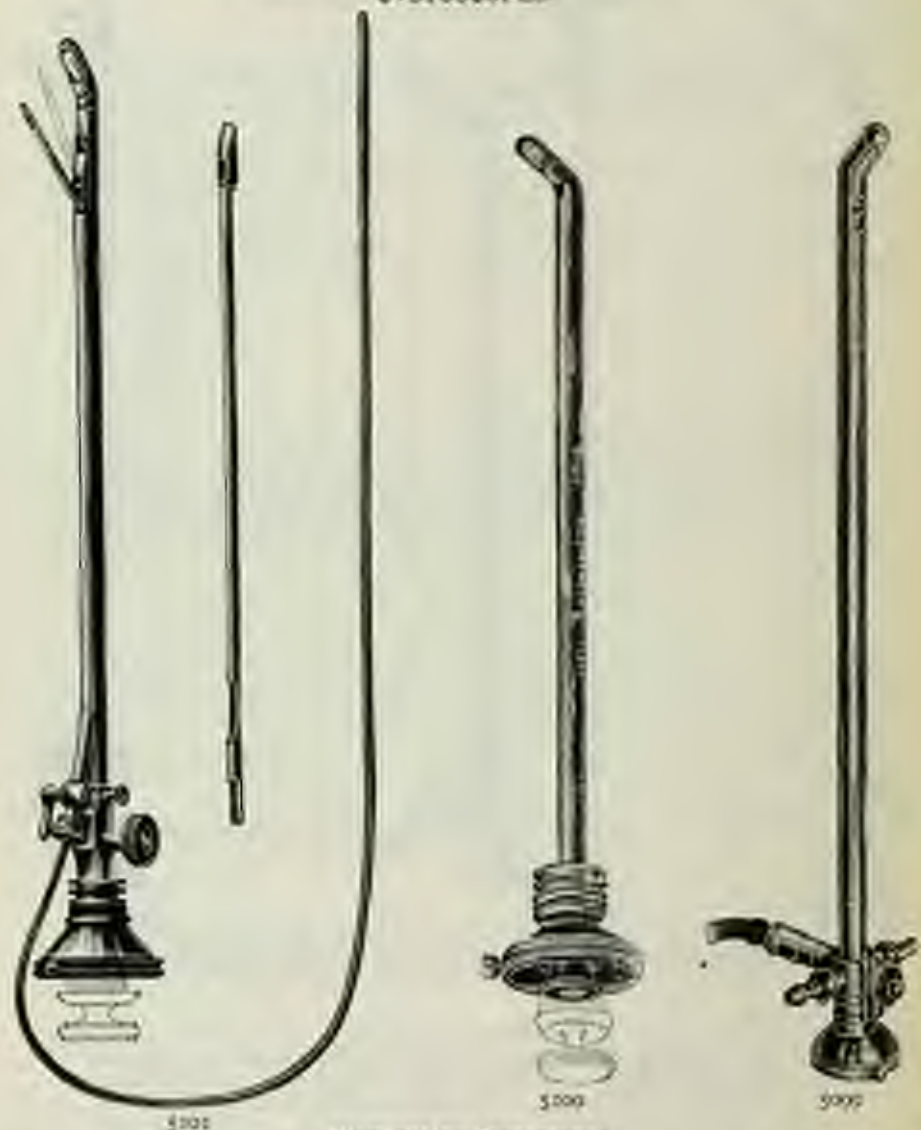
By removing the telescope the instrument can be used to irrigate the bladder. A ball valve automatically closes the outer sheath; through this valve the two-way stop-cock can be introduced for irrigation. The size of this instrument is No. 23 French scale.

5008a. Phantom Bladder, for practicing cystoscopy, on base, 25 50

5008b. Cystoscope Holder, attachable to operating table, 20 50

For Batteries and Electric Lamp Controllers, see Electrical Section.

Male Urethral Instruments. CYSTOSCOPES.



Illuminating Cystoscopes.

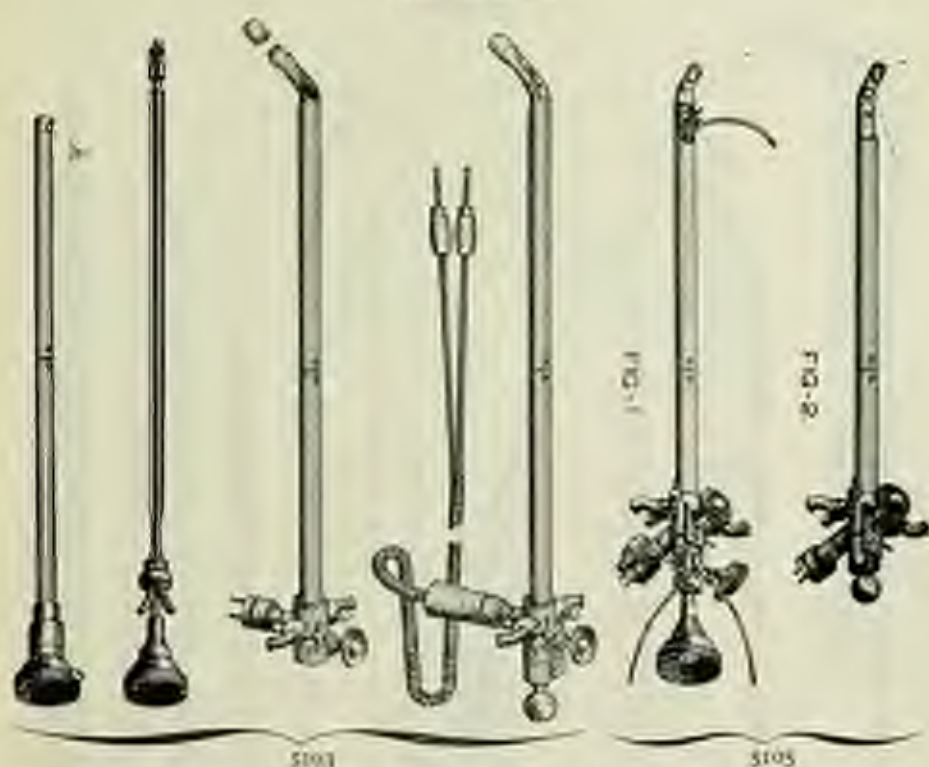
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| 5099.* | Offis' Examining, size No. 20 French scale, American make | \$30 00 |
| 5100.* | Nitze's Examining, corrected image, size No. 20 French scale; also sizes 14 and 18 French scale, made by Loewenstein | 35 00 |
| 5101.* | Nitze's latest, single catheterizing, size No. 23 French scale; for illuminating the bladder and simultaneous catheterization of the ureters. The catheter is movable at end, so as to find ureter without disarranging the focus. Made by Loewenstein. Complete with conducting cords, extra lamp and ureter catheter in case | 70 00 |
| 5102. | Nitze's latest, like Figure 5101, but double catheterizing. Complete, in case, with two ureter catheters | 80 00 |
| | Extra Lamp, with fittings, for No. 5099 each | 1 00 |
| | " " " " " Nos. 5100, 5101 and 5102 | 1 50 |

For Batteries and Electric Lamp Controllers see Electrical Section.

All instruments illustrated are designated by a *.

Male Urethral Instruments.

CYSTOSCOPES.



Illuminating Cystoscopes.

- 5103.* F. Tilden Brown's Composite Cystoscope; set consisting of one direct examining lens system, one direct catheterizing lens system, one indirect examining lens system, one indirect catheterizing system, one pair conducting cords and two extra lamps, in case. . . \$100 00
5104. F. Tilden Brown's Cystoscope; set consisting of one direct catheterizing lens system, one indirect examining lens system, one pair conducting cords and two extra lamps, in case.
Male set, \$60 00; female set 50 00
- 5105.* Brown-Berger's Combination Examining, Irrigating and Catheterizing Cystoscope, with conducting cords and two extra lamps.
Male, \$65 00; with corrected image, \$85 00; female, corrected image 85 00
5106. Brown-Berger's Urethro-Cystoscope, combined male and female . . 40 00
Extra Lamps, \$1 50 each.

For Urine Segregators see page 362.

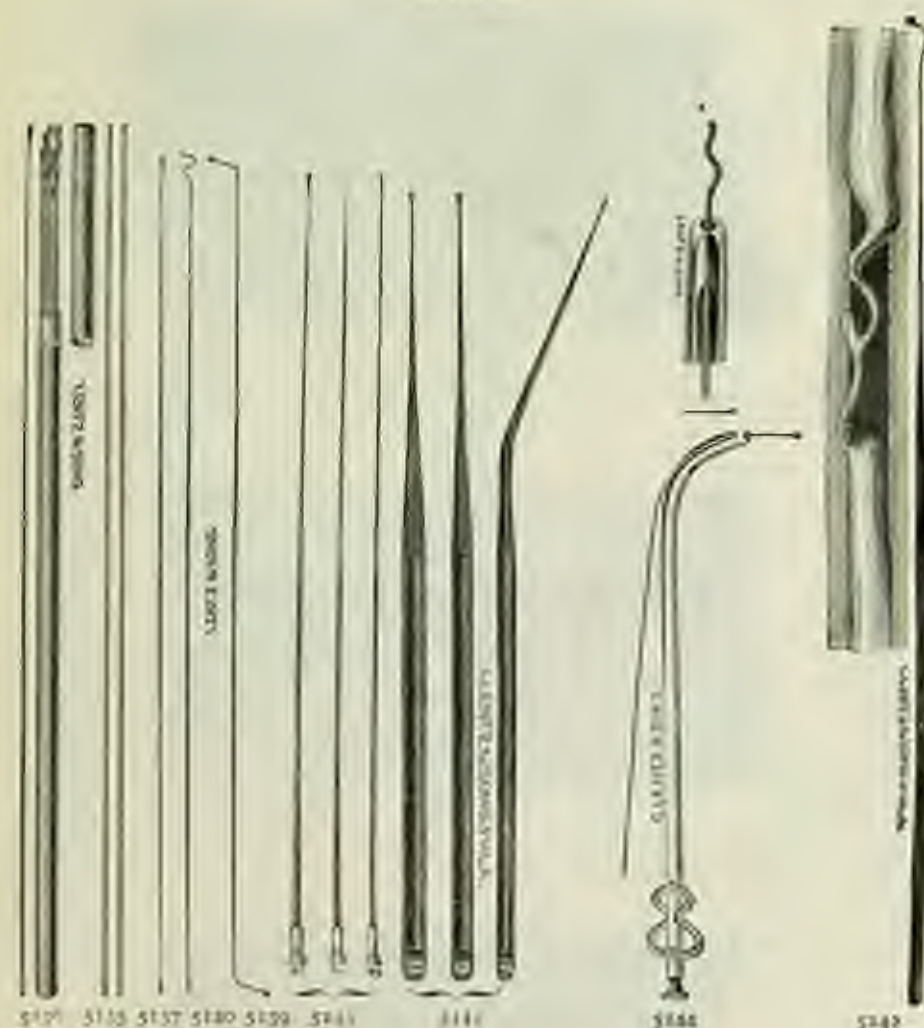
For Batteries and Electric Lamp Controllers see Electrical Section.

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, hone, nickel plate, your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Male Urethral Instruments.

BOUGIES.

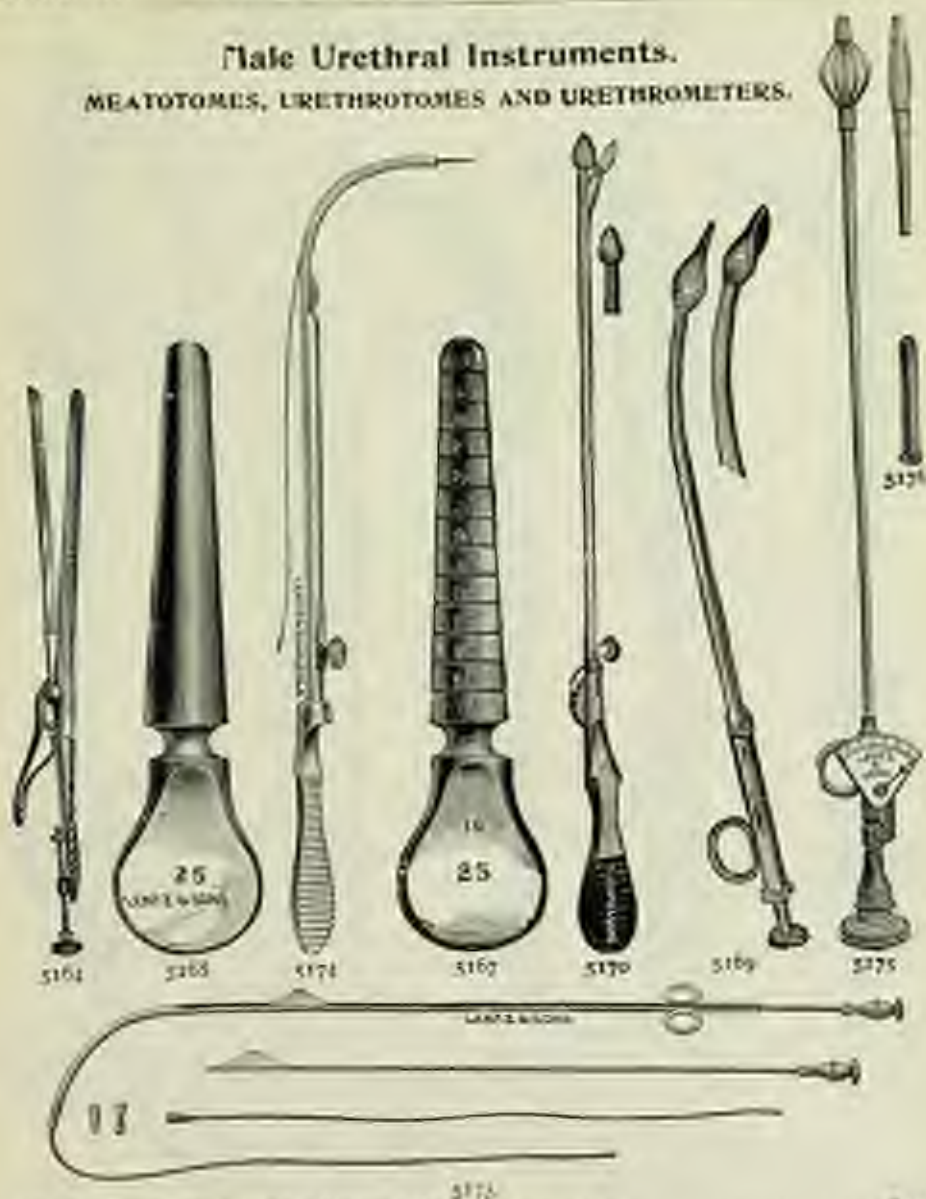


5135."	Silicious Bougie, whalebone, cylindrical,	do., in nickel-plated case, \$1.75; each	\$0.20
5136."	" " " "	silicious at one end,	
5137."	" " " "	do., in nickel-plated case, \$2.00; each	.25
5138."	" " " "	at both ends	.30
5139."	" " " "	20 inches long	.45
5140."	" " " "	Gouley's, angular, for eccentric and tortuous strictures	each .35
5141."	" " " "	nickel-screw-shaped, for eccentric and tortuous strictures	each .35
5142."	" " " "	Bark's, wedge-shaped, three sizes	\$1.00 to 1.50
5143."	" " " "	Hunter's (diamond-shaped)	1.00
5144."	" " " "	silk web, d'Erville's, conical	.75
5145."	Tunnelled Catheter, Gouley's, for fibrous bougies		1.00

All instruments illustrated are designated by a 7.

Male Urethral Instruments.

MEATOTOMES, URETHROTOMES AND URETHROMETERS.

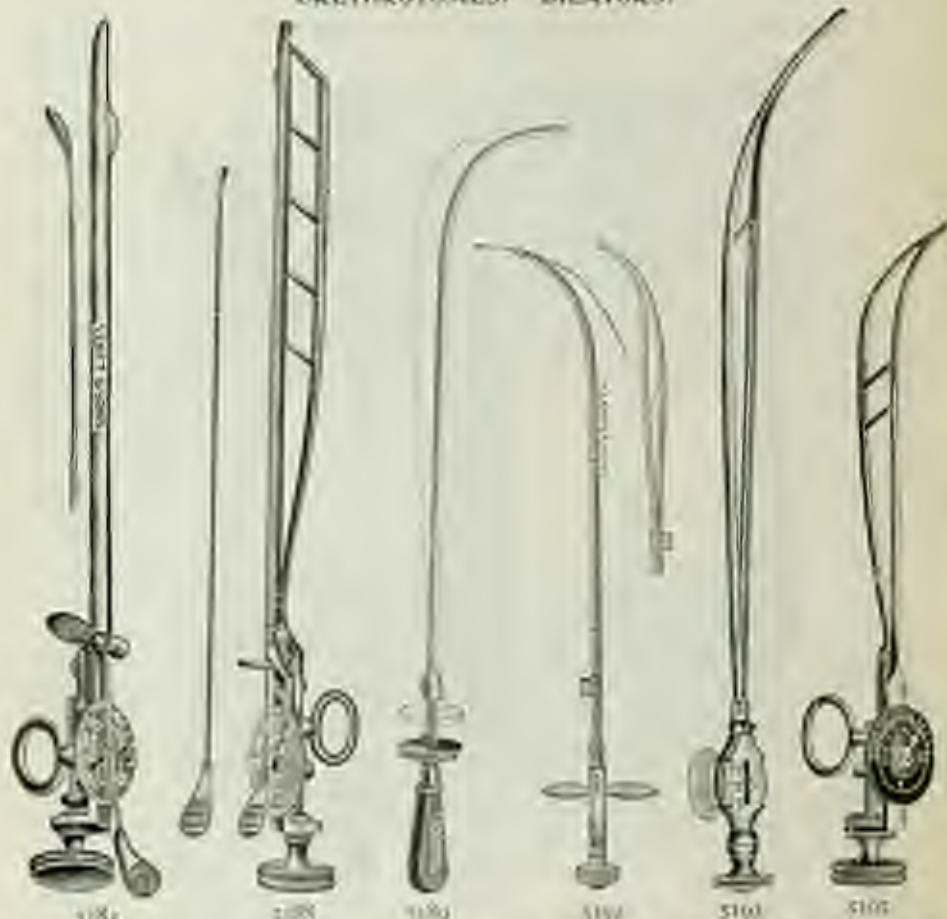


5164.*	Meatotome, Circle's History Cache	each	\$4.50
5165.	" Gouley's		2.25
5166.	" Otis', metal handle		1.50
5167.*	Measometer, Piffard's, graduated		.85
5168.*	Measur. Bivalve " conical		.65
5169.*	Urethrotome, S. D. Gross', straight or curved	each	2.75
5170.*	" S. W. Gross', straight		2.25
5171.	" Gouley's, twisted, original		4.50
5172.	" " improved		12.50
5173.*	" Malouineux's, in case		8.00
5174.*	" White's		7.00
5175.*	Urethrometer, Otis', biased, latest pattern		12.00
5176.*	Rubber Caps for Otis' Urethrometer	per doz.	3.50
5177.*	Urethrometer and Dilator combined, Kollmann's		20.00

All instruments illustrated are designated by a *.

Male Urethral Instruments.

URETHROTOMES. DILATORS.

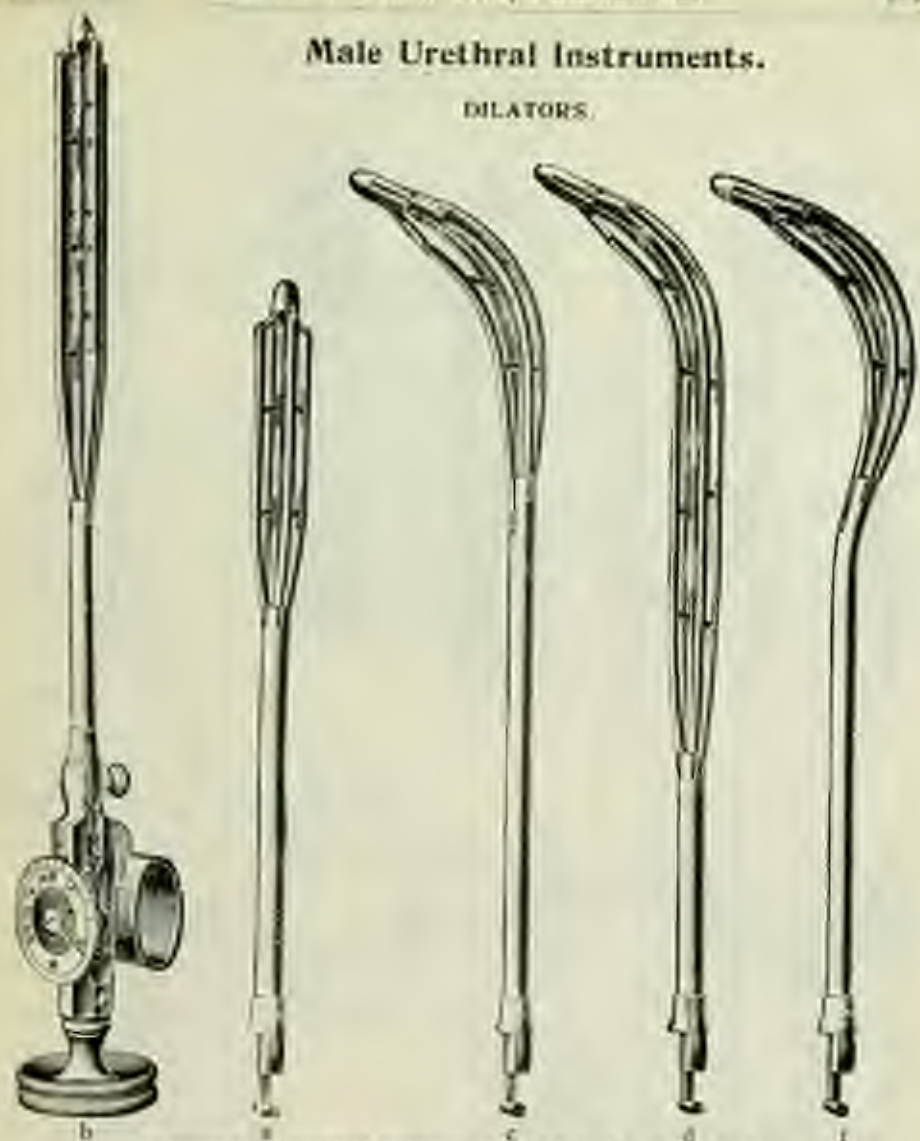


5184	Urethrotome, Bovie's, with 2 knives, 2 levers and 1 guide	\$18.00
5185	Olis' dilator, straight, in case	12.00
5186	Olis' dilator, curved	12.00
5187	Olis' Weale's dilator, straight, with one wheel, in case	15.00
5188	Olis' dilator, straight, with one wheel, in case, separable	15.00
5189	German's dilator and self-registering, aseptic, combines the curves of Olis' Urethrotome and all his Urethrotomes. In case	18.00
5190	German's dilator	12.00
5191	Olis' improved dilator, straight, with 2 knives, in case	15.00
5192	This instrument has a sliding sheath which carries the knife. With it the urethra is forced without measuring and the blade will cut the stricture bands only. Special circular on application.	
5193	Urethral Dilator, Lentz' modified Stearns'	5.00
5194	Stearns'	3.00
5195	Gross'	8.00
5196	Grosby's	7.00
5197	Thompson's	7.00
5198	Powell's, (not bladed)	25.00
5199	Oberlander's	12.00
5200	Covers, pure gum, for straight or curved dilators	Doz., \$5.00 each

All instruments illustrated are fashioned by J. B. L.

Male Urethral Instruments.

DILATORS.



Kallman's Urethral Dilators, four-bladed, articulated.

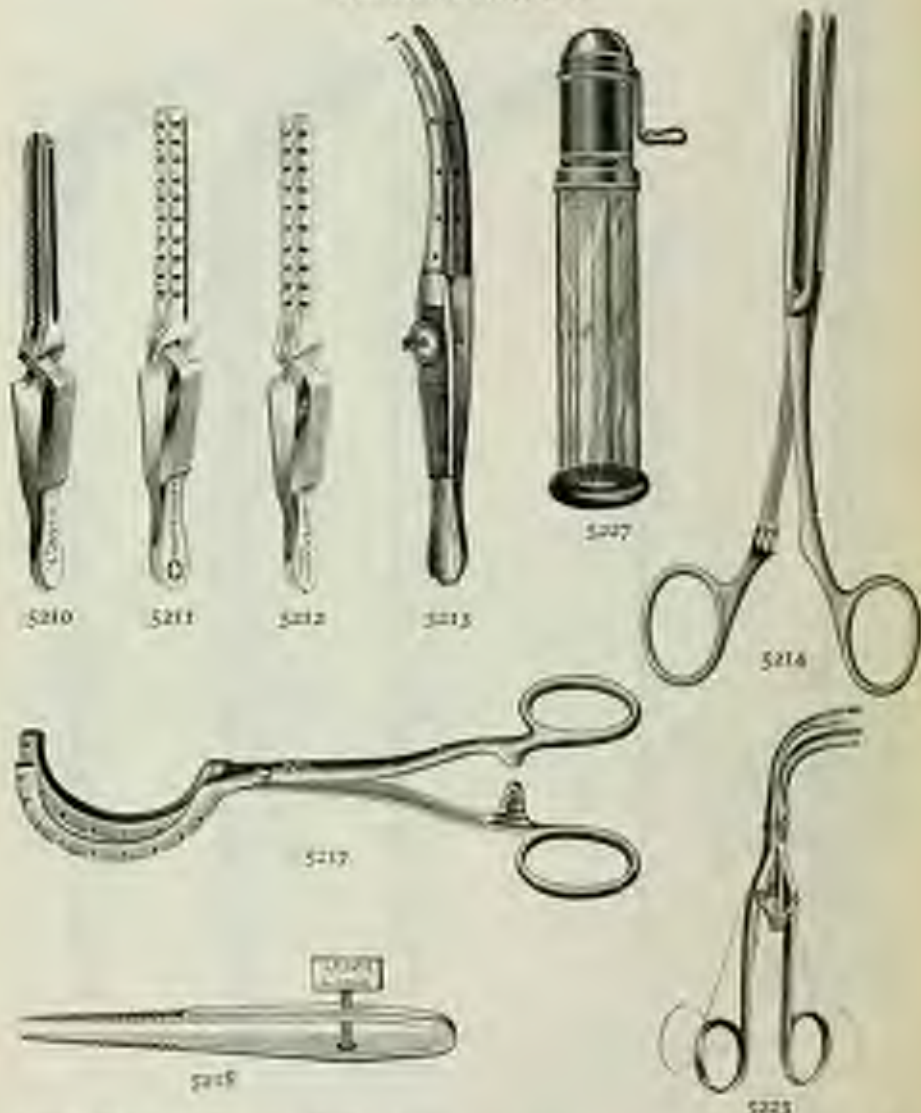
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| 5206a.* | Straight, with short branches, for anterior urethra; complete with handle, \$22 50; blade only | \$15 50 |
| 5206b.* | Straight, with long branches, for anterior urethra; complete with handle, \$23 50; blade only | 16 50 |
| 5206c.* | Curved, for posterior urethra; complete with handle, \$26 00; blade only | 19 00 |
| 5206d.* | Curved, for anterior and posterior urethra; complete with handle, \$31 00; blade only | 24 00 |
| 5206e. | Curved, for posterior urethra, with Besnier's curve; complete with handle, \$27 00; blade only | 20 00 |
| 5206f.* | Curved, for posterior urethra, with Gayon's curve; complete with handle, \$27 00; blade only | 20 00 |

These Dilators are thoroughly aseptic and of finest workmanship. The blades are interchangeable, and, if so preferred, one handle will suffice for one or all blades.

No covers required for these instruments, as the blades are so constructed that they cannot catch the folds of the urethra.

Male Urethral Instruments.

PHIMOSIS FORCEPS.



5210.*	Phimosi Forceps,	Skiffen's	\$1.75
5211.*	"	Frederick's, separable blades	1.00
5212.*	"	Tortat's	1.75
5213.*	"	Fisher's	2.00
5214.*	"	Record's, with catches	2.50
5215.*	"	Baird's, three sizes	each 2.50
5216.*	Preputial Dilator,	Levis'	2.00
5217.*	"	Girdner's	1.00
5218.*	"	Stewart's, semi-bladed	2.50
5219.*	"	Nelson's, three-bladed	3.50
5220.*	Penis Developer,	Jennison's	3.75
5221.*	"	"Modern"	4.00
5222.*		patient, \$4.50; physician	
5223.*		" 5.00	

*All instruments illustrated are designated by a *

Male Urethral Instruments.

VARICOCELE CLAMPS AND NEEDLES.

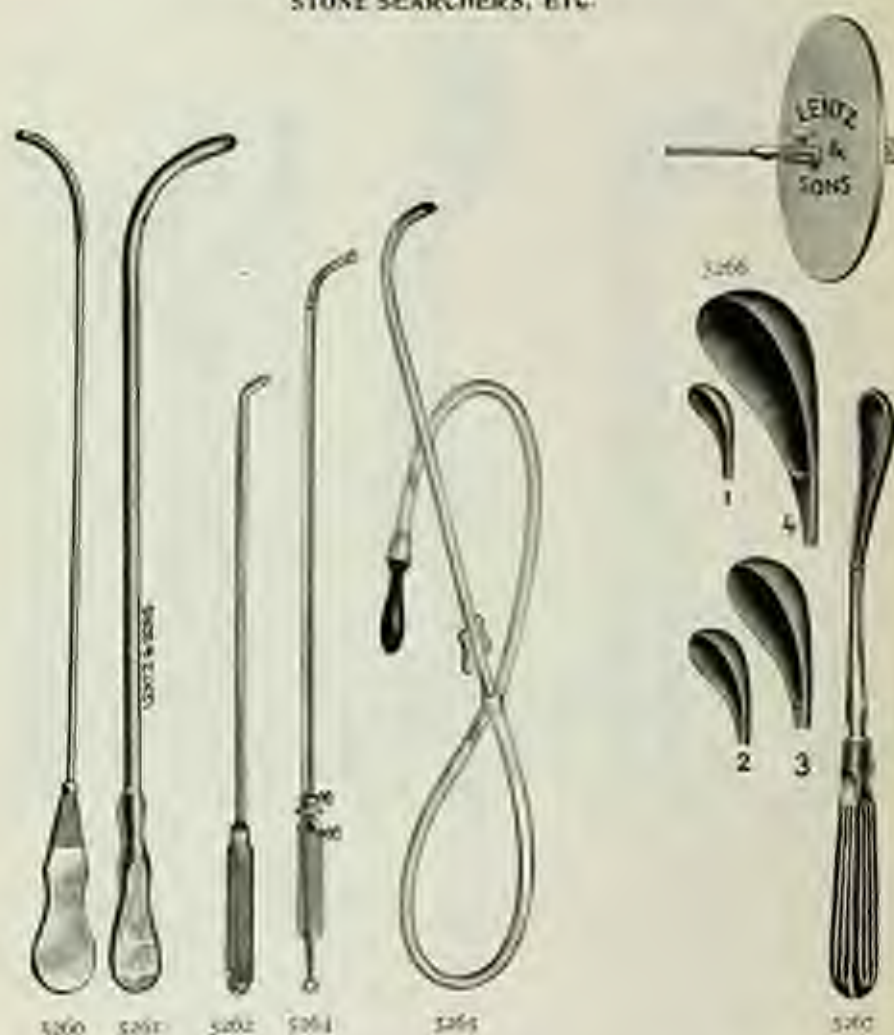


5225 *	Varicocele Clamp, King's		\$2.00
5226 *	" Lewis'		2.50
5230 *	Spermasthenia Ring, silver plated	patients, \$1.00; phys.	.50
5231 *	Varicocele Needle, Keyes', lance point		1.25
5232 *	" " oblique		1.25
5233 *	" " improved, self-closing eye		2.25
5235 *	Syringe, Hydrocele, Van Buren's, rubber bag with stop-cock		1.50
5236 *	hard rubber, 3/16 in.; with long silver tube to introduce through Tro-		
5237 *	car Canal for injecting hydrocele		1.00
5238 *	Scrotal Compressor, Milliss's, three sizes	patients, \$1.25; phys.	1.00
5239 *	" Carroll's, silk elastic, for orchitis, three sizes	patients, \$1.50; phys.	1.25
5240 *	" " Martin's modified Langenbeck's, for epididymitis, three sizes	patients, \$1.25; phys.	1.00

All instruments illustrated are manufactured by A. *

Male Urethral Instruments.

STONE SEARCHERS, ETC.



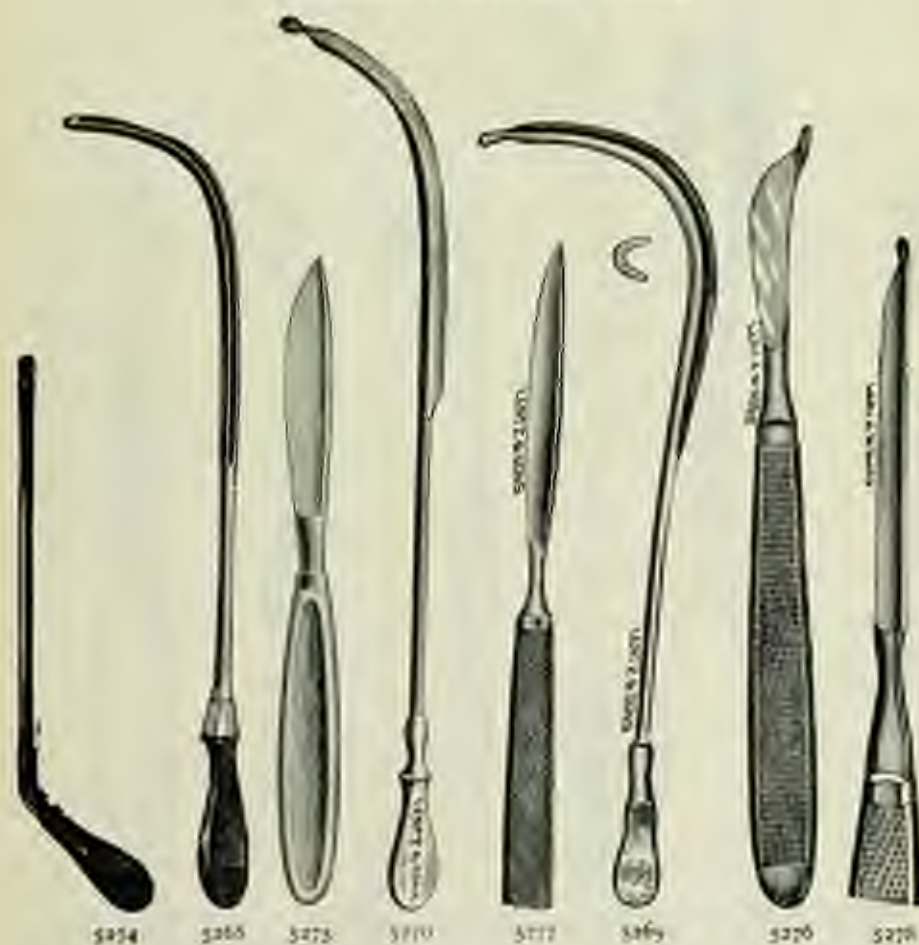
3260.*	Stone Searcher, Horwitz's	child's, 90c.; adult's	\$1.25
3261.*	" " plain, cylindrical or ballous end	each	.75
3262.*	" " Keyes'		1.75
3263.	" " Gendley's		1.00
3264.*	" " Otis'		3.50
3265.*	" " Andrew's, with tubing and earpiece		1.25
3266.*	Sounding Board, Billroth's		2.50
3267.*	Lithotomy Scop, Luer-Koerte's, four sizes	each	2.00

All instruments illustrated are designated by a *.

"The name LENTZ on any instrument is to you a guarantee of superior quality and absolute reliability."

Male Urethral Instruments.

LITHOTOMY STAFFS AND KNIVES.

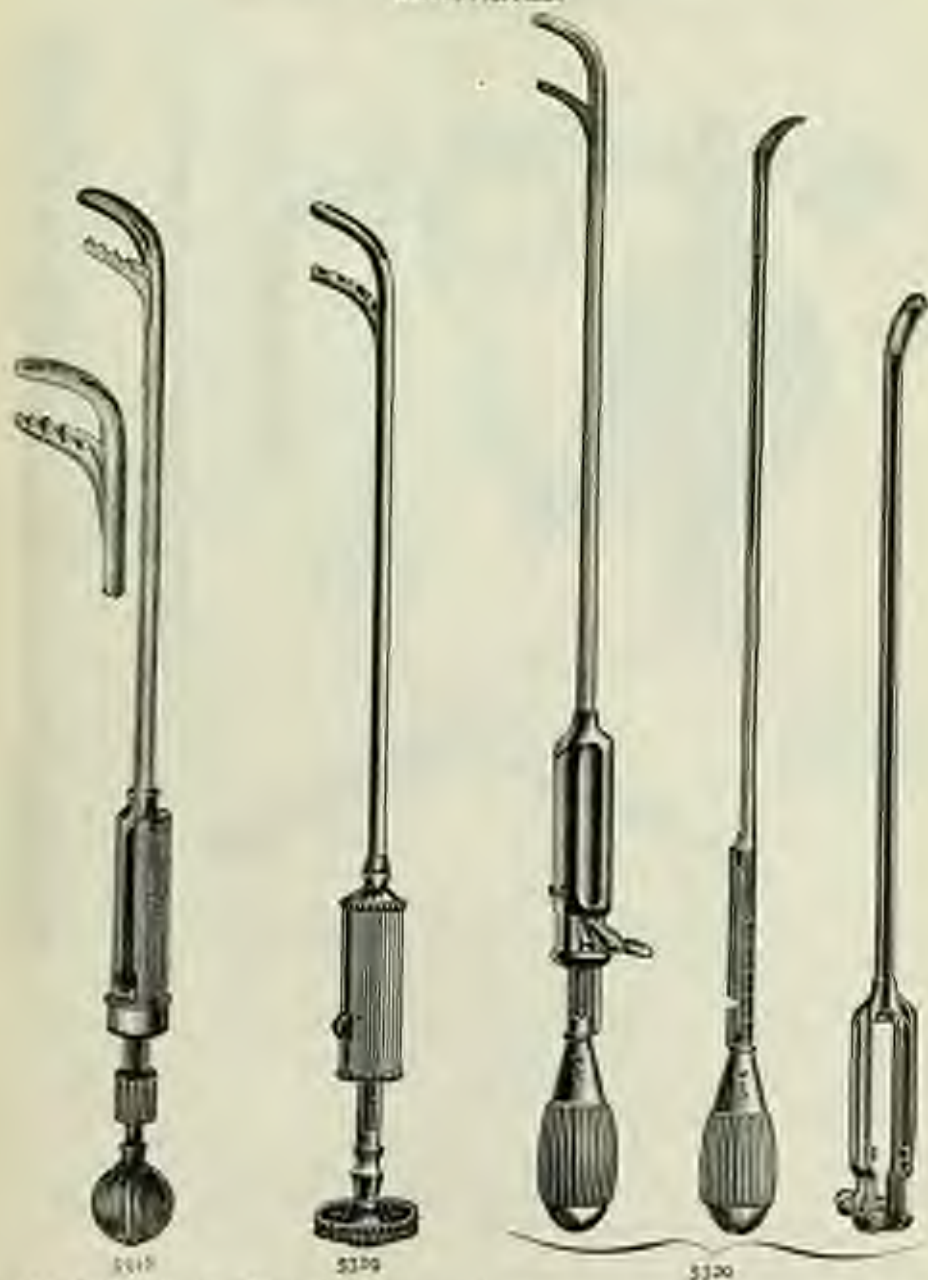


5268.*	Lithotomy staff, plain	\$1.42
5269.*	" " Little's	1.50
5270.*	" " Mackoe's	1.50
5271.	" " Buchanan's, rectangular	1.50
5272.	" " laterally grooved	1.30
5273.	" " and Director, Wood's	5.00
5274.*	Director, Little's, metal handle	1.00
5275.*	Scalpel, sharp pointed, metal handle	1.00
5276.*	" " probe " " " "	1.75
5277.*	Excisary, sharp " " " Little's	1.50
5278.*	" " probe " " " Bissell's	1.75
5279.	Knife, Wyatt's, metal handle	1.50
5280.	" " Teevan's, metal handle	2.50

*All instruments illustrated are designated by a *.*

Male Urethral Instruments.

LITHOTRITES.

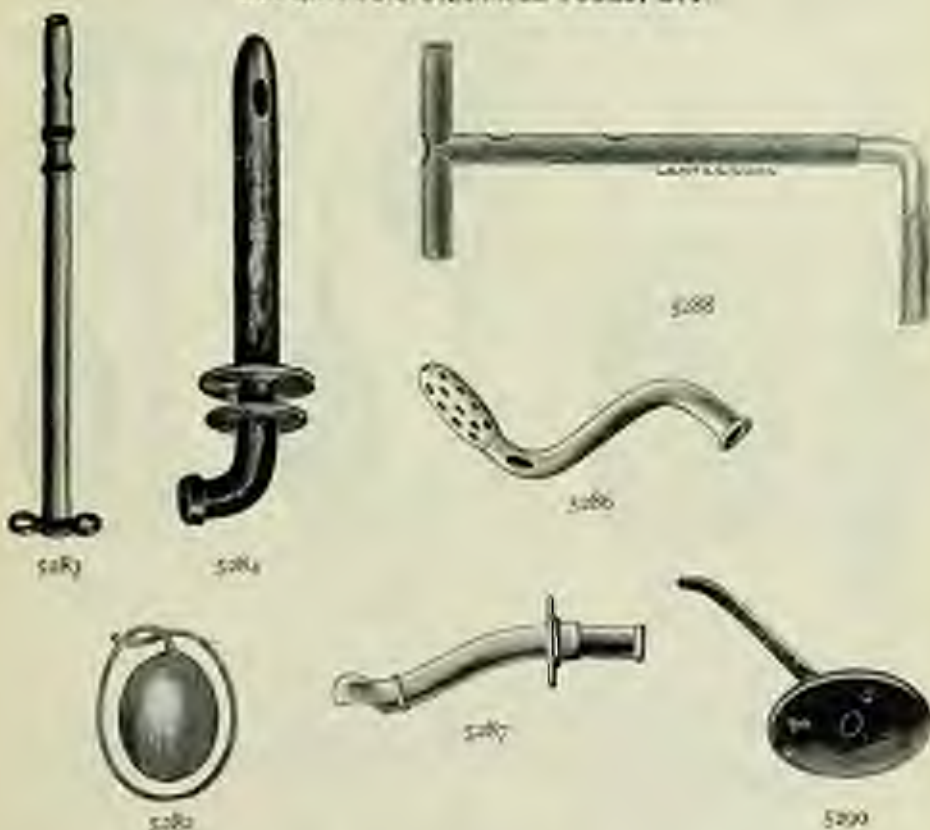


5318	Liberson's	Engel's, latest improved	\$25.00
5319	"	Thompson's	20.00
5320	"	Kalher's, entirely dissimilar and superior	21.00
5321	"	Kay's	24.00
5322	"	Cyale's	20.00

All instruments illustrated are designated by a %.

Male Urethral Instruments.

SUPRA-PUBIC DRAINAGE TUBES, ETC.



5281. Supra-Pubic Drainage Apparatus, Bangs', hard rubber pad and soft rubber catheter \$1.50
 5282.* Colpoclyster, Peterson's, for raising the bladder, pure gum 1.75
 5283.* Lithotomy Canula, for plugging wound with gauze to control hemorrhage75
 5284.* Supra-Pubic Drainage Tube, Keyes', hard rubber or metal 2.00
 5285. " " " " Bloodgood's, hard rubber, with soft rubber trial attachment 6.00
 5286.* " " " " Sens's, plated 2.00
 5287.* " " " " Watson's 3.00
 5288.* " " " " Vischer's, soft rubber, with glass connection 1.25
 5289. " " " " Allis's, plated 2.00
 5290.* Plug, Hunter McGuire's, hard rubber00
 This plug is used to maintain the patency of an artificial supra-pubic urethra and to act as a stopper to prevent dribbling of urine. It is intended for constant use, to be removed only when urine is voided.
 5291. Debris Tube, for washing out debris, Van Buren's, hard rubber \$1.00
 5292. " " and Obturator plated, 90c.; silver 1.60
 5293. Catheter, Pezzer's self-retaining, with mushroom point and large opening in the center for vesico-urethral drainage after supra-pubic operations. (See page 408.)80
 5294. Retractor, Keyes' perineal, for supra-pubic cystostomy 1.75
 5295. Apparatus for holding apart the lower extremities, Clover's improved 2.00

Urethral Instruments.

ANTI-MASTURBATION AND SUPRA-PUBIC DRAINAGE APPLIANCES.



8980



4948



4760

- 3350* Anti-Masturbation Appliance. *Istak*; renders the advance toward the genitals impossible even to the most impetuous child.

Made of Jean material, thoroughly reinforced by hard rubber covered stays. The portion guarding the genitals is of silver wire mesh, secured securely to a steel girdle, to which a pair of under-strings fasten by lock device. Can be worn constantly, as it does not interfere with defecation.

Write for directions for taking measurements.

Price: \$20.00 (b) \$20.00 =

5351. Anti-Masturbation Appliance, male. Like No. 5350, except that the receiving coat for the penis is formed of sterling silver, perforated.

Price \$10.00 to 60.00 =

- | | | |
|------|---|--|
| 1352 | Anti-Masturbation Appliance; perforated metal protector, adjustable belt and understraps, German model - female, \$25.00; male, 18.00 | |
|------|---|--|

- | | | |
|------|--|------|
| 6244 | Oilcans Compressor, Bullseye's: within fountain village and bath | 8.00 |
|------|--|------|

- | | | | |
|------|--|------|------|
| 5105 | Artificial Testicles, xylitolid; three sizes | each | 1.50 |
|------|--|------|------|

- | | | | |
|---|------------|-------|--|
| 5358.* Super-Pulse Drainage Appliance, Stevenson's), consisting of tube and round cap with belt and animal. | | | |
| Made to order | \$13.00 to | 20.00 | |

- 5360⁸ suitable also for hermaphrodites; consisting of long cup with bell and spiral. Made to order. Silver-plated, \$15.00 to \$22.00; silver, \$20.00 to 30.00.

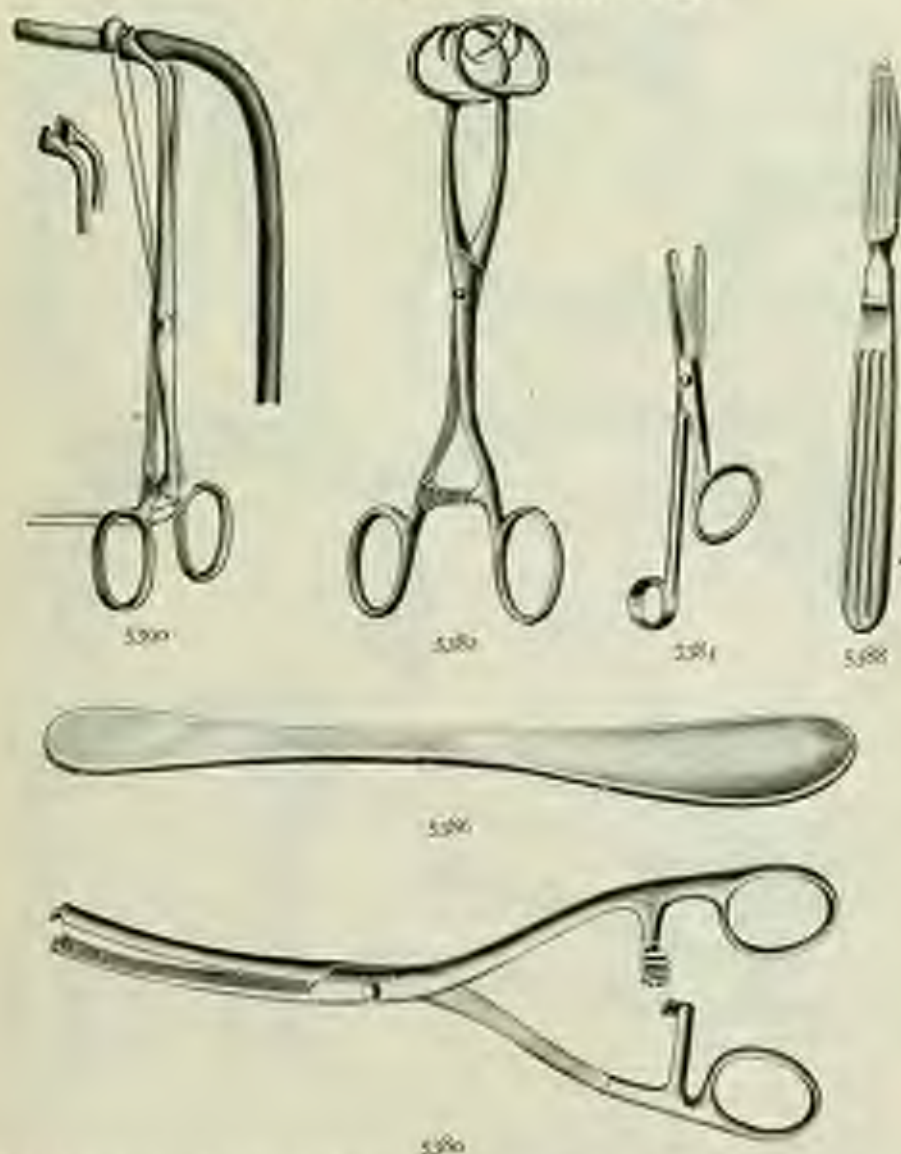
- LESS: consisting of a soft rubber tube and a hard rubber plate with
box

- | | | | | |
|-----|---|---|---------|----|
| 104 | 1 | 2 | Dinet's | 69 |
|-----|---|---|---------|----|

When ordering Supra-Pubic Drainage Appliances, specify the desired length and diameter of the tube, also the circumference of both below the crests of iliacs.

All styles illustrated are designed by a *

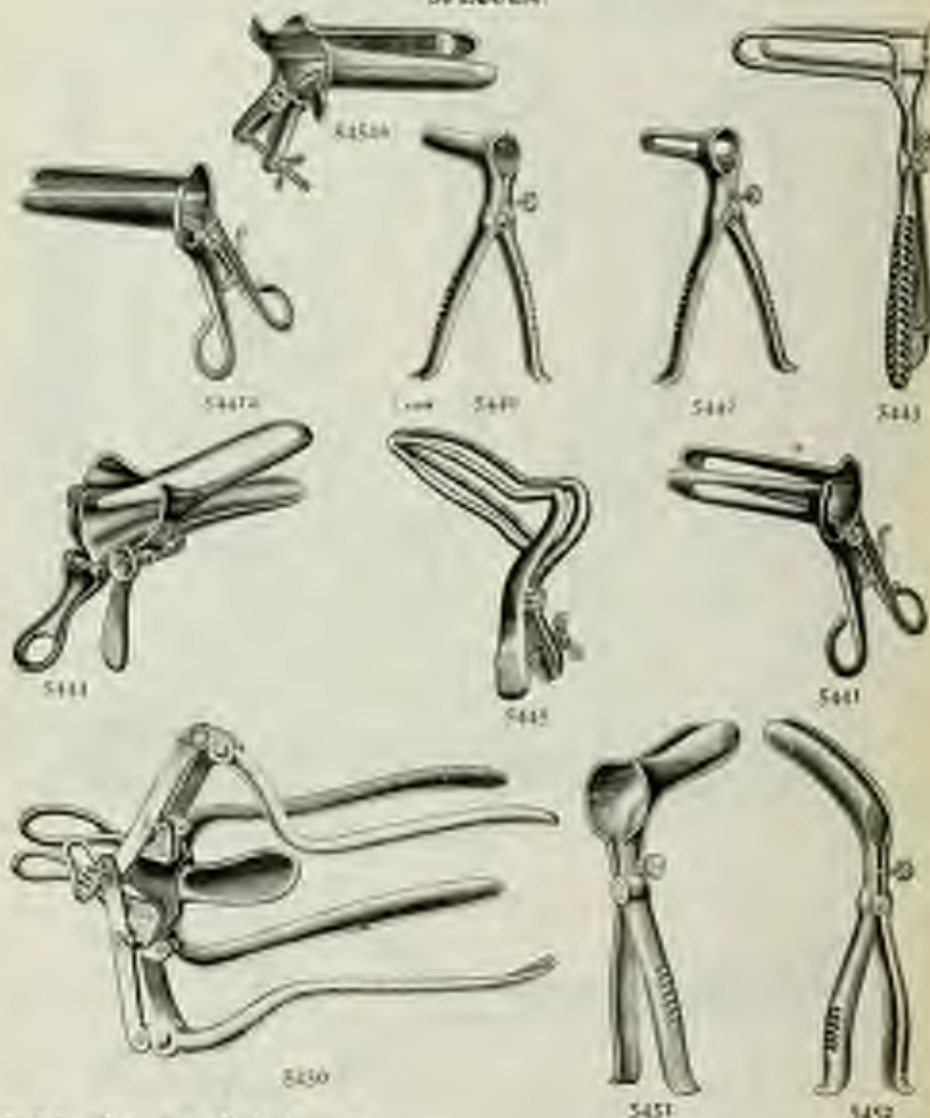
Goitre Instruments.



- 5380.* Compression Forceps, Kocher's, curved sideways, *without teeth* \$4.00
 5382.* Gland Forceps, Kocher's, three sizes each 5.00
 5384.* Scissors, Kocher's 3.00
 5386.* Scoop 1.25
 5388.* Bryndoccle Sound, Kocher's without eye, \$1.15; with eye 1.25
 5389.* Intubation Canula with Chloroform Apparatus and Introducing Forceps, Dove's 6.75
 5392. Ether Vapor Inhaler, Mary P. S. Rupert's, for the administration of ether in operations about the mouth and face. See illustration on page 7. Descriptive circular on application 8.00

*All instruments illustrated are designated by a **

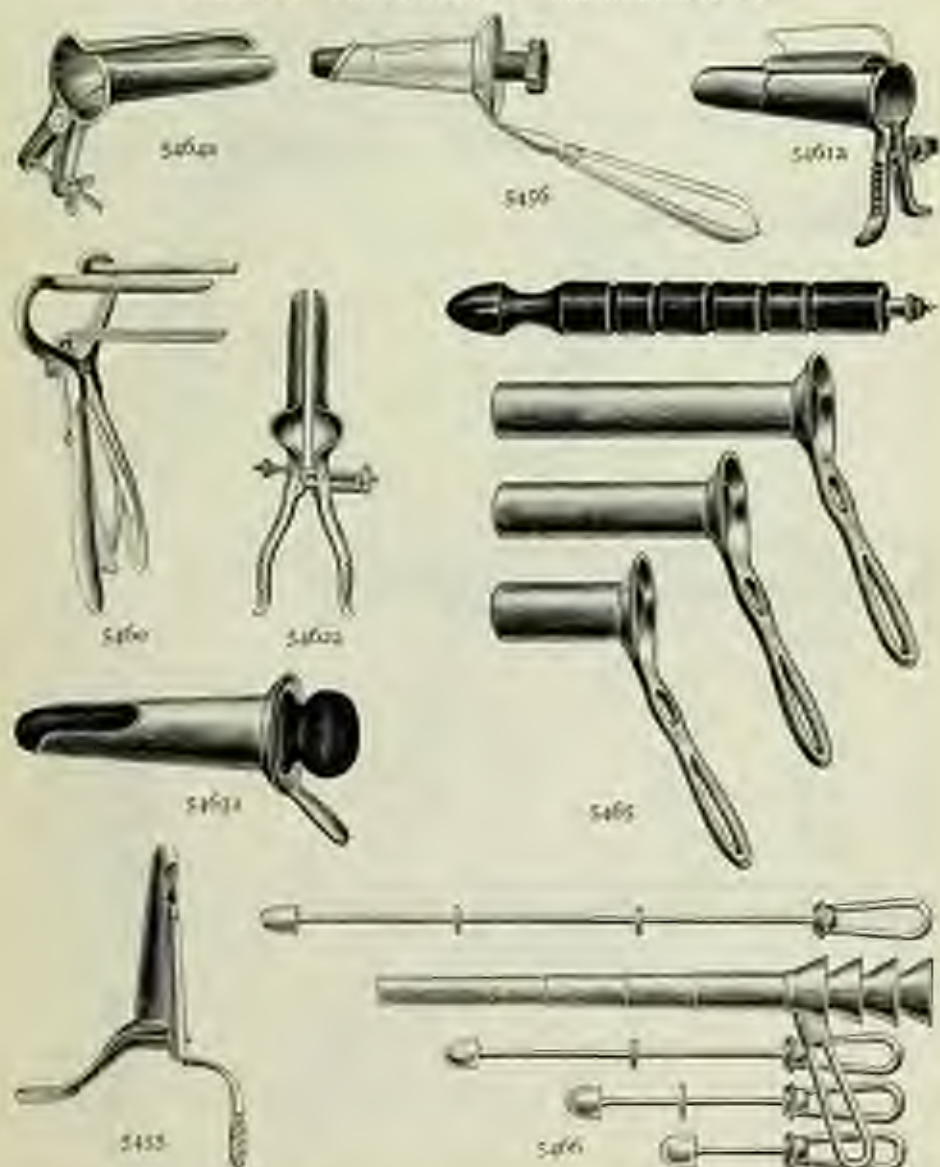
SECTION XII. Rectal Instruments. SPECULA.



5440.*	Speculum, Bodenhamer's	\$1.50
5441.*	Gast's fenestrated	3.50
5442.*	" examining	3.50
5443b.	Murray's tubular, with slide	3.00
5442.*	Sims'	1.50
5443.*	" all steel	3.75
5444.*	Kelsey's	2.25
5445.*	Mathews'	3.00
5450.*	Allingham's, four-bladed	2.50
5451.*	Pruitt's	3.00
5452.*	" sigmoid	2.00
5454.	Leonard's, bivalve	2.00
5454a.*	O'Neill's	2.75
5457.	Allingham's, conical, all metal	2.75

Rectal Instruments.

SPECULA. PROCTOSCOPES. SIGMOIDOSCOPES.

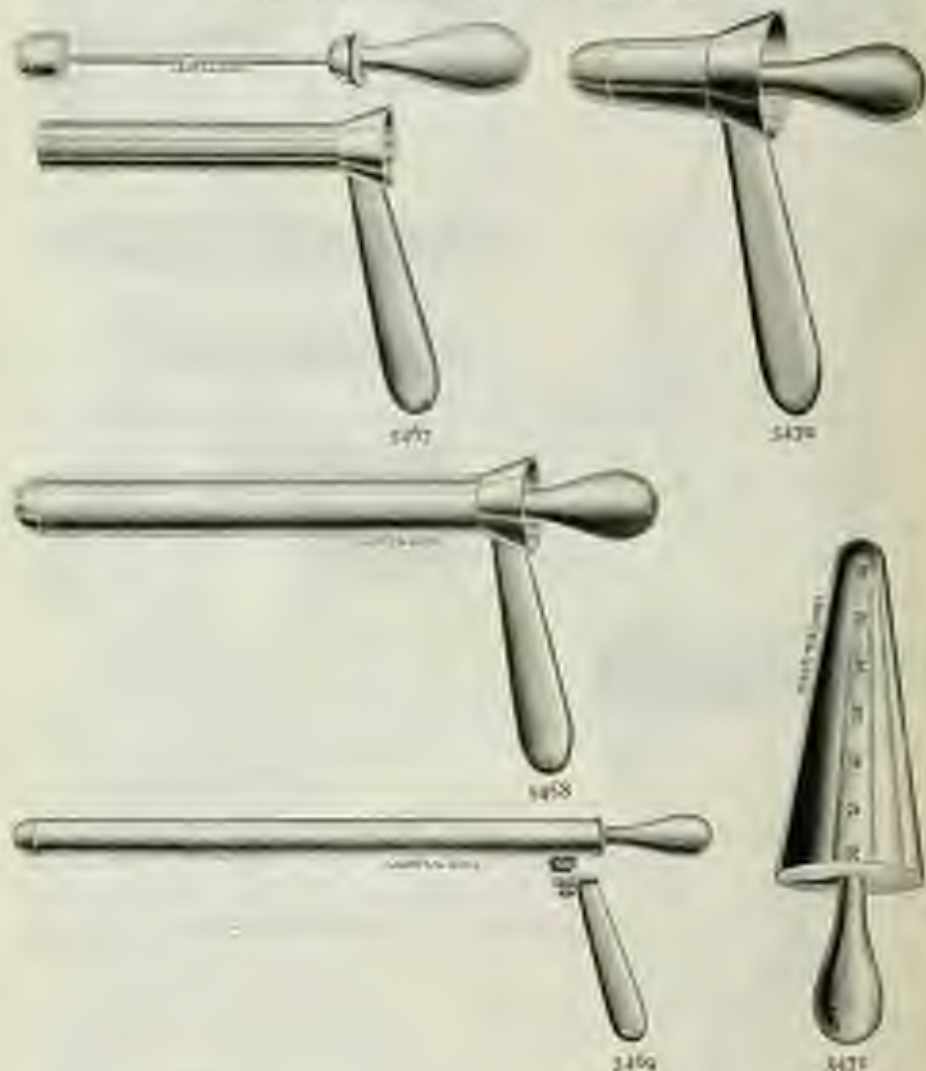


5452.*	Speculum, Binkshof's, three sizes	each \$5.50
5456.*	Collier F. Martin's, with h. r. obturator	3.75
5460.*	Cook's tri-valve, steel, with automatic ratchet	5.00
5461a.*	"Philadelphia," hinged top flange	1.00
5462a.*	"parallel blades	1.50
5463a.*	Ives', with hard rubber obturator	3.25
5464a.*	"Ideal"	2.50
5465.*	Proctoscopes, Martin's, set of three with one hard rubber obturator	0.00
5466.*	Sigmoidoscopes, Murphy's, set of four with one handle	6.50

All instruments illustrated are designated by a *

Rectal Instruments.

PROCTOSCOPES, SIGMOIDOSCOPES, ETC.



5467.*	Proctoscope, short, Kelly's	\$2.45
5468.*	— — — — — long	2.20
5469.*	Sigmoidoscope, with detachable handle, Kelly's	1.75
5470.*	Sphincteroscope, Kelly's	2.25
5471.*	Sphincter dilator, conical, Kelly's, graduated	2.50

*All instruments illustrated are designated by a **

Rectal Instruments.

DILATORS.



5472.*	Dilator, Sims', steel, nickel-plated	...	\$5.00
5473.*	Pratt's, improved, metal, with screw top; can be filled with either hot water or ice and salt, etc. sizes, $\frac{1}{2}$ in. to $1\frac{1}{2}$ inch in diameter	set of 6, \$5.00; each	1.25
5474.*	plain, without screw top, six sizes	set of 6, \$5.00; each	1.00
5475.*	tapered, with screw top and in side outlet tubes for allowing a constant flow of either hot or cold water; same sizes as No. 5474	set of 6, \$5.00; each	1.50
5476.*	improved, self-feeding, with screw top for hot or cold water. The screw top is constructed in two parts, so that after inserting the dilator, the knob can be unscrewed in avoid any inconvenience to the patient, especially while lying down. For taking out, the knob can be easily replaced again. Four sizes, $\frac{1}{2}$ in. to $1\frac{1}{2}$ in. in diameter	set of 4, \$5.00; each	1.50
5477.*	Weirick's, self-feeding, hard rubber, with tube through center for flushing the bowel	set of 4, \$5.00; each	1.25
5478.*	Young's, hard rubber, plain	set of 4 (sold in sets only)	5.00
5481.*	tubular, for flushing the rectum	...	3.00

All instruments illustrated are delivered F.O.B.

Rectal Instruments.

BOUGIES, COLON TUBES, ETC.



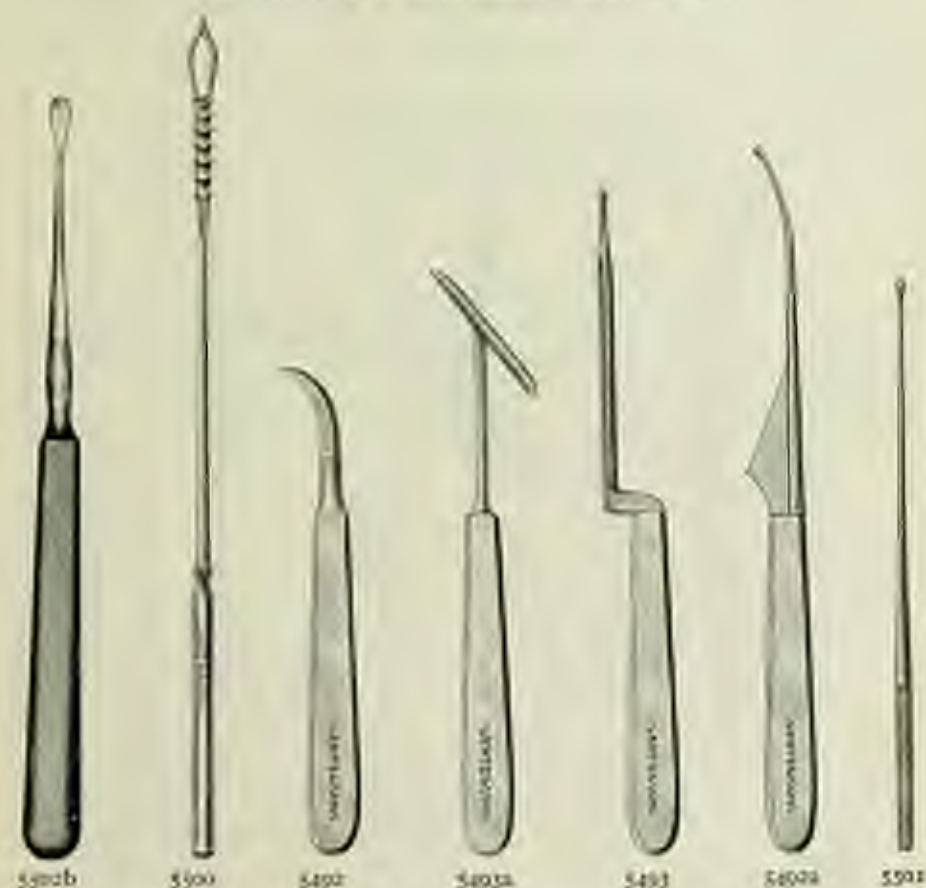
5483.	Bougie, coated, gum elastic web, twelve sizes.	each	\$1.50
5484.	" cylindrical "	"	50
5485.	" urinary "	"	90
5486.	Walsh's soft rubber, "	"	"
	1 to 5, each, \$1.00; 6 to 8, each, \$1.25; 9 to 12, "	"	0.50
5487.	Bougie, cylindrical, hard rubber, set of six sizes, coated.	"	3.00
5488.	Tube, gum elastic web, with funnel end, three sizes.	each	1.25
5489.	" soft rubber, thick walls, velvet finish "	20 to 30 in.	75
5490.	" " " " " "	30 in.	80
5491.	" " " " " "	extra thick walls, Langdon's, five feet long	2.00

For Rectal Electrodes, see Electrical Apparatus.

All instruments illustrated are designated by a ".

Rectal Instruments.

DR. COLLIER F. MARTIN'S OPERATING SET.

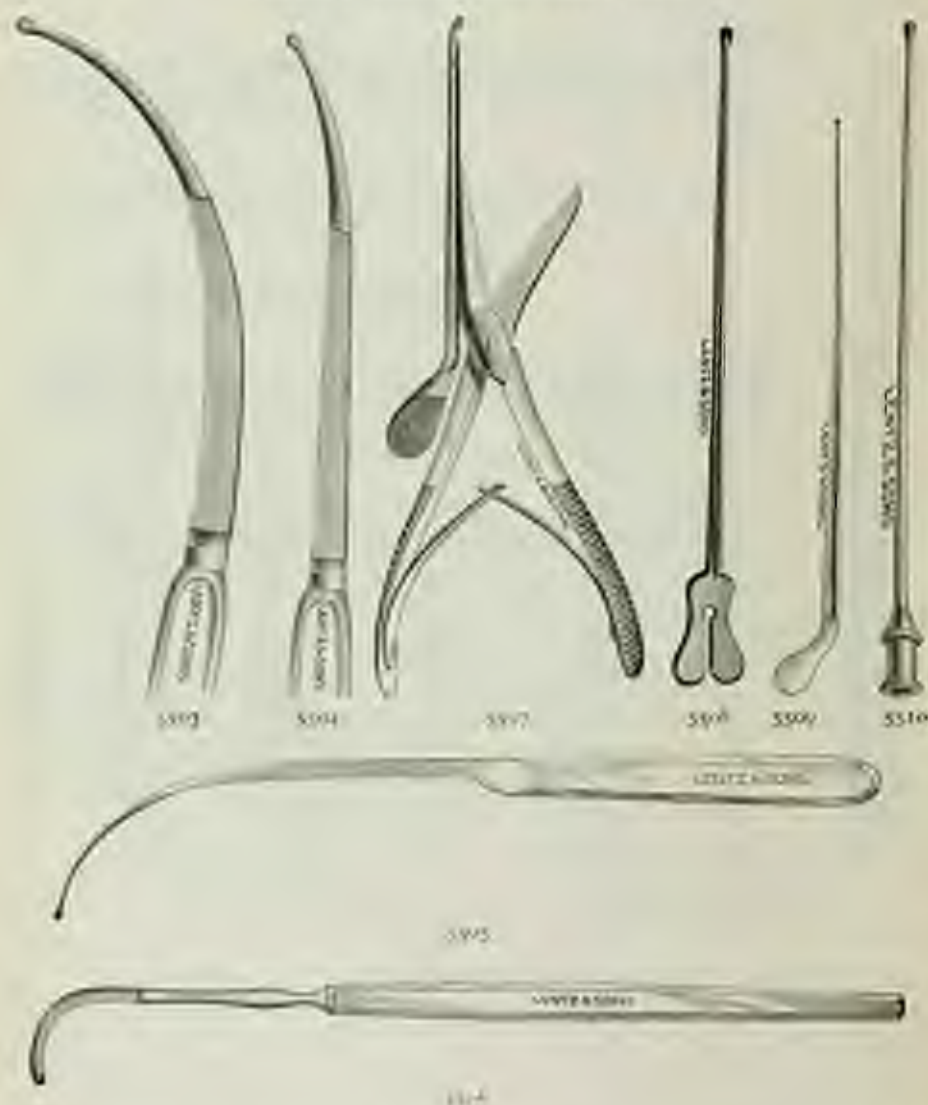


5492.*	Abscess Bistoury, Martin's, curved, sharp point	\$1.50
5492a.*	Fistula Knife, Martin's, long probe end	3.25
5493.*	Director, Martin's, operating, straight, probe end	2.00
5493a.*	" " angular, for internal fistula	2.50
5500.*	Cotton Applicator, Martin's, steel, long slide . . . . .	.75
5501.*	Probe, Martin's, steel . . . . .	.50
5502.	Fistula Hook, Martin's	1.25
5502a.	Crypt Knife, "	1.50
5502b.*	" " Brick's	1.50
<hr/>		
5493b.	Director, Gass's, angular, for internal fistula	1.00
5493c.	" Murray's modification of Gass's	1.00
5493d.	Tenaculum, Murray's, for blind fistula; three sizes each	1.00

*All instruments illustrated are designated by a *.*

Rectal Instruments.

FISTULA KNIVES AND DIRECTORS.

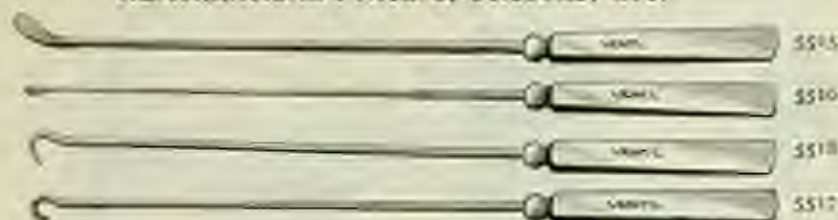


5502.*	Histology, for testing habits in ano, Goring's	\$2.40
5504.*	" " " " " "	2.25
5505.*	" " " " " "	2.00
5506.*	" " " " " "	1.50
5507.*	Scissors and Director, for enlarged fistula, Allingham's	4.00
5508.*	Director, probe, polished	1.50
5509.*	" " " " " "	1.00
5510.*	Canula, long, light, double silver, attachable to a hypodermic syringe, for injecting into the sinus	.75
5511.	Pistulotome, Matthews	5.00

All instruments illustrated are designated by a.*

Rectal Instruments.

HEMORRHOIDAL FORCEPS, SCISSORS, ETC.

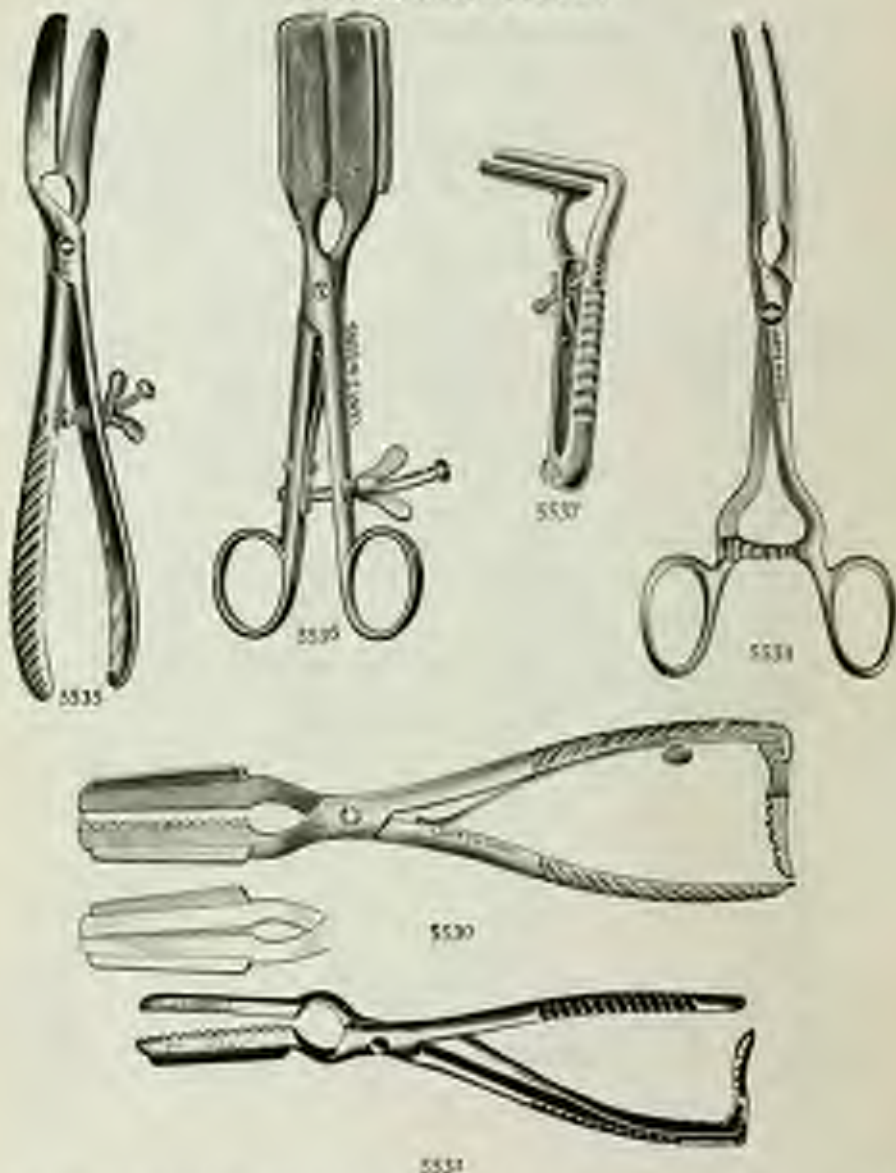


5515 ^a	Scalp, small, for the removal of force	\$0.85
5516 ^a	Probe, silver	.25
5517 ^a	Hook, steel, Pratt's	.50
5518 ^a	Touache	.00
5519 ^a	Forceps, artery, Pratt's, V-shaped	1.75
5520 ^a	" " " " " " " "	1.75
5521 ^a	" " " " " " " "	1.25
5522 ^a	Hemorrhoidal, Pratt's, with catches	1.00
5523 ^a	Gore's	1.50
5524 ^a	Hemorrhoidal, prism-shaped	2.00
5525 ^a	Hemorrhoidal, with catches	2.50
5526 ^a	Adams's	1.75
5527 ^a	Todd's, Liver	1.00
5528 ^a	Scissors, Pratt's, latest pattern	1.75
5529 ^a	Hill's, short, serrated blades and angular bent handles	2.50

(All instruments illustrated are designated by a *.)

Rectal Instruments.

HEMORRHOIDAL CLAMPS.



5539

5530*	Hemorrhoidal Clamp, J. C. Brick's, best quality, forged steel	\$7 50
5531*	" " " " Cook's	5 00
5532*	" " " " Murray's, parallel blades. (See illustration on next page)	8 50
5533	" " " " Earle's, small, angular	2 75
5534*	" " " " Hawkins'	4 00
5535*	" " " " Kelly's	3 00
5536*	" " " " Smith's, ivory faced	4 50
5537*	" " " " Gaof's, best quality, forged steel	4 00
5538	" " " " Langenbeck's, ivory faced	5 00

All instruments illustrated are designated by a *.

Rectal Instruments.

HEMORRHOIDAL SYRINGES, LIGATURE CARRIERS, ETC.



5532



5546



J. & S. 5537



5540

5539*	Ligature Carrier, Allingham's	\$2 75
5540*	" " Helmsk's	2 00
5541.	" " Cord, elastic (solid rubber)	per yard 15
5542.	Needle for Piles, Bush's, set of three, in one handle	2 75
5542a.	" " " De Garzo's, full curved	per dozen 1 25
5543.	Cautery Irons, set of three, fitting into one handle	3 50
5544.	Rectal Valve Clip, Pennington's	2 50
5544a.	" " " Introducer, Pennington's	7 50
5545.	" " " Gant's	1 75
5545a.	" " " Introducer, Gant's	4 25
5546*	Hemorrhoidal Syringe, Gant's, in case	3 00
5546a.	" " " J. Coles Brick's	2 50
5546b.	" " " Collier F. Martin's	1 50

For Thermo-Cauteries, see pages 389 and 390.

All instruments illustrated are designated by a *.

Rectal Instruments.

IRRIGATORS AND COOLERS.

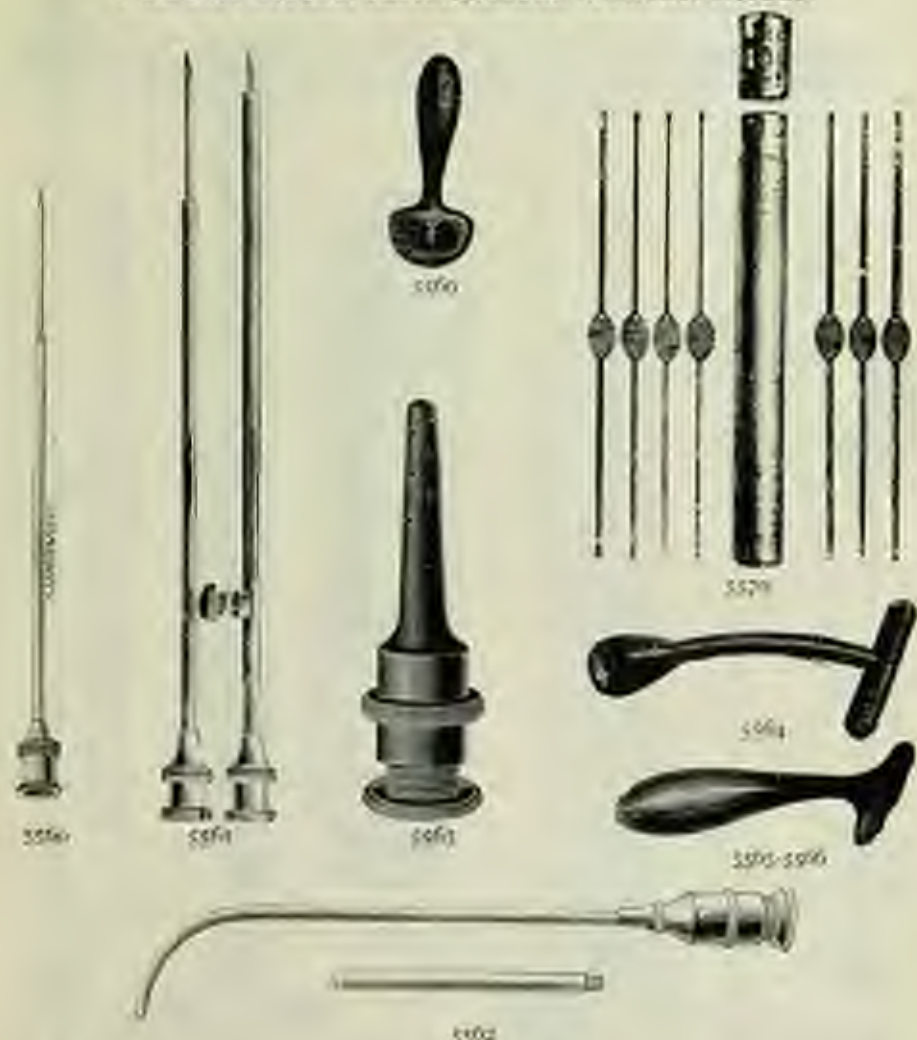


5546	Irrigator, all metal, with small perforations through entire length of stem		\$1.75
5548*	" Martin's improved, plated		1.25
5549	" Kemp's, hard rubber, 3 sizes	each	1.35
5550*	" " metal, plated, 3 sizes		1.75
5551*	" " Bodensham's, hard rubber		1.50
5552	" " metal, plated		2.25
5553*	" " Jeannin's, " "		1.25
5553a*	" " Guller's, " "		1.75
5554*	" " Cole's, sigmoid		.90
5555	Cooling or Heating Corr. Arzberger's, plated	straight, \$2.00; curved	3.00
5556	" " " " Martin's, plated		1.95
5557*	" " " " Esmer's		1.00
5558	" " " " Winter's		1.75
5558a	" " " " Kemp's, glass		1.00
5559	" " " " Chetwood's, glass		.60

All instruments illustrated are designated by a *.

Rectal Instruments.

PILE SUPPORTERS, HEMORRHOIDAL NEEDLES, PROBES.

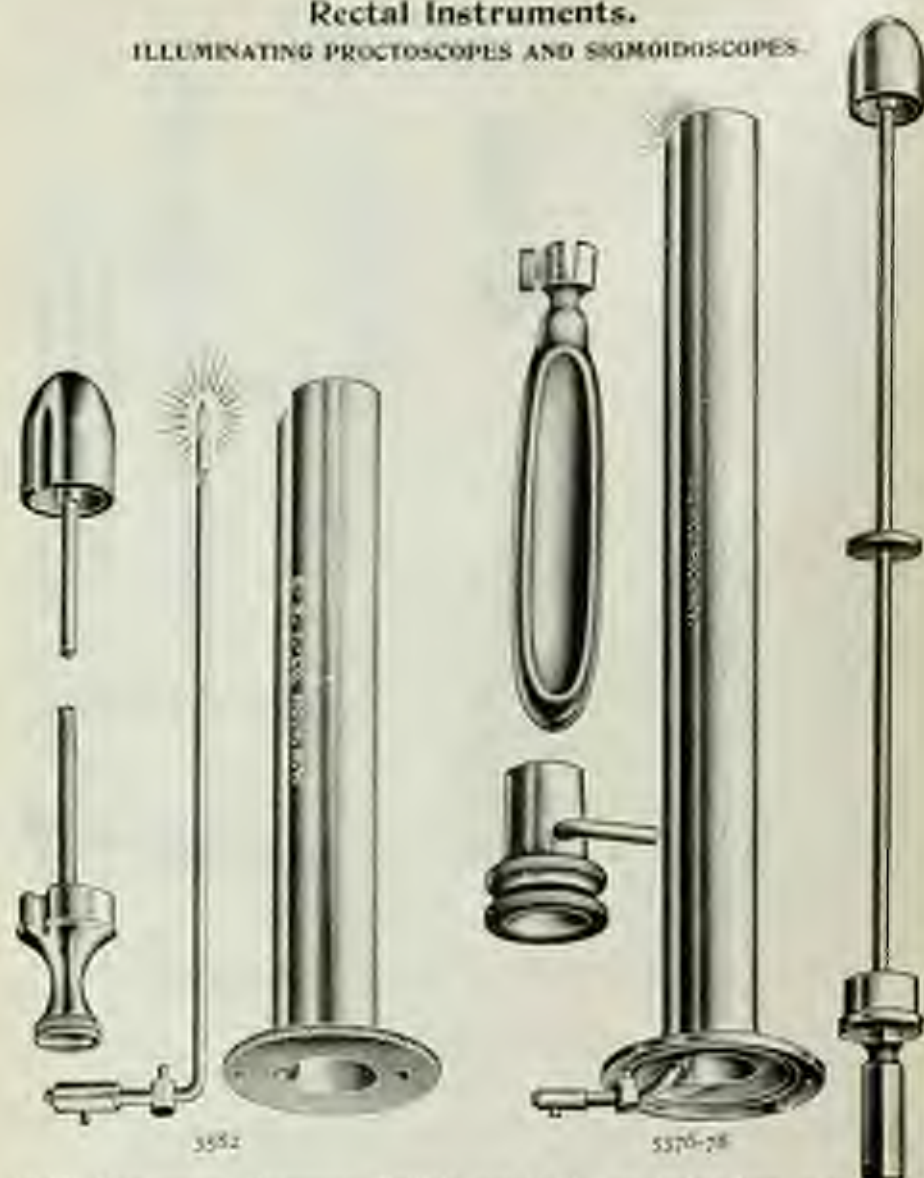


5550*	Needle, Hemorrhoidal, to fit on hypodermic syringe	\$0.65
5551*	" " " " " " " " " " " "	1.00
5552*	" " " " " " " " " " " "	1.00
5553*	Pile Pipe for applying ointments, hard rubber	2.50
5554*	" " " " " " " " " " " "	50
5555*	Supporter, Reed's, hard rubber	75
5556*	" " " " " " " " " " " "	75
5557*	" " " " " " " " " " " "	1.00
5558*	" " " " " " " " " " " "	1.30
5559*	" " " " " " " " " " " "	1.30
5560*	Probes and Directors, Gant's, set of eight in case	4.50
5561*	Instillation Apparatus, Murphy's, for giving rectal infusions	3.50
5562*	" " " " " " " " " " " "	5.00
5563*	" " " " " " " " " " " "	5.00
5564*	" " " " " " " " " " " "	5.00
5565*	Prolapsus Ani Supporter, hard rubber adjustable pad with fine padded waist band	115.50

All instruments illustrated are designated by a *

Rectal Instruments.

ILLUMINATING PROCTOSCOPES AND SIGMOIDOSCOPIES.



- 5576.* Proctoscope, Pneumatic, Tuttle's, size 37 F., four inches long, with obturator, light carrier, window, dilating bulb and handle . . . \$14.00
- 5577.* Sigmoidoscope, Pneumatic, Tuttle's, size 37 F., ten inches long, with obturator, light carrier, window, dilating bulb and handle . . . 16.00
- 5578.* Procto-Sigmoidoscope, Pneumatic, Tuttle's, Nos. 5576 and 5577, with one window, one pair dilating bulb and one handle, \$25.00; in case 20.00
5579. Sigmoidoscope, Tuttle's, with Mercier curve, complete . . . 18.00
5580. Proctoscope, Beal's, four inches long, 1/4 in. diam., with obturator and light carrier . . . 10.00
5581. Sigmoidoscope, Beal's, eight inches long, 1/4 in. diam., with obturator and light carrier . . . 10.00
- 5582.* Proctoscope, "E. S. F.," made in five sizes, Nos. 45, 50, 55, 60, 65 F., and in three lengths, 8, 15 and 20 cm., each with obturator, \$4.00; with light carrier in addition 6.75

For Batteries, see Electrical Section.

SECTION XIII. Post Mortem and Dissecting Instruments.



5599



5596



5598



5595



5597



5598



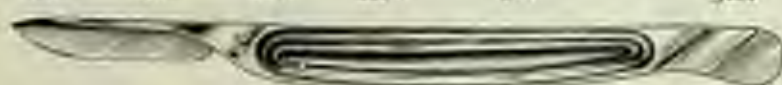
5600



5601



5602



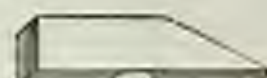
5599

5589*	Scalpels, four sizes, all steel, keen edge	each	\$0 25
5590*	Scalpels, four sizes, all steel, keen edge	each	60
5591*	Scalpels, four sizes, all steel, keen edge	each	85
5592*	Scalpels, four sizes, all steel, keen edge	each	65
5593*	Scalpels, four sizes, all steel, keen edge	each	75
5594*	Scalpels, four sizes, all steel, keen edge	each	80
5595*	Scalpels, four sizes, all steel, keen edge	each	1 25
5596*	Scalpels, four sizes, all steel, keen edge	each	2 25
5597*	Scalpels, four sizes, all steel, keen edge	each	2 50
5598*	Scalpels, four sizes, all steel, keen edge	each	2 75
5599*	Scalpels, four sizes, all steel, keen edge	each	3 00
5600*	Scalpels, four sizes, all steel, keen edge	each	3 25
5601*	Scalpels, four sizes, all steel, keen edge	each	3 50
5602*	Scalpels, four sizes, all steel, keen edge	each	3 75
5603*	Scalpels, four sizes, all steel, keen edge	each	4 00
5604*	Scalpels, four sizes, all steel, keen edge	each	4 25
5605*	Scalpels, four sizes, all steel, keen edge	each	4 50
5606*	Scalpels, four sizes, all steel, keen edge	each	4 75
5607*	Scalpels, four sizes, all steel, keen edge	each	5 00
5608*	Scalpels, four sizes, all steel, keen edge	each	5 25

Post Mortem and Dissecting Instruments.



3503



3512



3513



3515



3511



3512



3516



3517



3521

3509.	Myktonic, Pick's, for spinal cord		\$1 50
3509a.	Chisel, Brunetti's, for opening the vertebrae, right and left	each	2 50
3510.*	"	plate, small, 90c.; large	90
3511.*	" octagon handle	75c.	1 25
3512.*	Rachitonic Chisel, for operating upon the spinal column		1 50
3513.*	" straight or curved, heavy		1 75
3514.	Cosmotic		1 50
3515.*	Hammer, all steel	small, \$1 00; large	1 75
3516.*	" lead filled, non-rebounding		1 75
3517.	Saw and Knife, Fintell's, fitting in one handle		3 25
3518.*	" with movable back and fixed metal handle	8-inch blade	2 00
3519.	" adjustable metal handle	8 "	3 00
3520.	Rachitonic Saw, double		10 00
3521.	Calvarium Hook		1 00
3522.	Reamer		1 50
3523.*	Needles, straight, half-curved or full-curved, 3 to 5 1/2 inch	each	15
3524.	" double-curved, extra long and heavy		60
3525.*	Gloves, dissecting, pure gum, fine quality, light. No. 6 to 10	per pair	85
3526.	Finger Cots, extra fine	per dozen	50

All instruments illustrated are designated by a *.

Post Mortem and Dissecting Instruments.



3535



3530



3531



3538



3531



3530	Parasitic Scissors	\$1.25
3530	probe, jointed	1.25
3531	Cutaneous, or rib shears	4.50
3536	with second sliding blade	4.00
3532	Skull Clamps, for steadying the head while sawing	8.00
3537	Cervical Clamps, Satterthwaite's	3.00
3531	Triple Head Rest, for steadying the head while sawing	2.25
3533	Injection Syringe, all metal, with three canula and stopcock	
	On c.c. \$7.50; 100 c.c. \$9.00; 300 c.c. 15.00	
3539	Tam, Messier's steel metric and inch scale	3 ft. \$1.00; 6 ft. 1.50
3530	Ball, brass, nickel-plated, 300 mm. with hook for holding	1.00

All instruments illustrated are designated by a .

Post Mortem and Dissecting Instruments.

3539. Dissecting Case, No. 1.

Contains two Scalpels; one Tenaculum; one Cartilage Knife; one Scissors; one Dissecting Forceps; one Blow-pipe; one pair Chain Hooks. In mahogany case, with ebony handles.

\$1 35

3540. Dissecting Case, No. 2.

Contains three Scalpels; one Tenaculum; one Cartilage Knife; one Scissors; one Dissecting Forceps; one Blow-pipe; one pair Chain Hooks. In mahogany case, with ebony handles.

1 60

3541. Dissecting Case, No. 3.

Contains four Scalpels; one Tenaculum; one Cartilage Knife; one Scissors; one Dissecting Forceps; one pair Chain Hooks; one Blow-pipe. In mahogany case, with ebony handles.

1 85

3542. Post Mortem Case, No. 1.

Contains one Saw, movable back; three Scalpels, assorted; one Tenaculum; one Cartilage Knife, heavy; one pair Scissors; one Dissecting Forceps; one Director; one Blow-pipe; one pair Chain Hooks; one Chisel; one Mallet. In mahogany case.

10 50

3543. Post Mortem Case, No. 2.

Contains one Saw, movable back; four Scalpels, assorted; one Tenaculum; one Cartilage Knife; one pair Scissors; one pair Dissecting Forceps; one Interosteum; one Chisel; one Mallet; one Grooved Director; one Blow-pipe; one pair Chain Hooks; two large Needles and Thread. In mahogany case.

15 00



3544

3544. Post Mortem Case, No. 3. Finsell's.

Contains one Finsell's Saw and Knife; three assorted Scalpels; one Tenaculum; one Pair Dissecting Forceps; one Scissors; one Chisel; one Blow-pipe; one set of Hooks and Chain; Needles and Thread. In a mahogany case.

\$10 00



3545

3545. Post Mortem Case, No. 4.

Contains Finsell's Saw and Knife to fit one Handle; three Scalpels; one Steel Handle Cartilage Knife; one pair Scissors; one Dissecting Forceps; one Tenaculum; one Mallet; one Chisel; one Blow-pipe; Chain and Hooks; Needles and Thread. In mahogany case, leather lined.

\$14 00

3546. Post Mortem Case, No. 5. Formad's.

Contains three Scalpels, heavy, assorted size; one Tenaculum, heavy; two Cartilage Knives, heavy; one Brain Knife; two Dissecting

Forceps, regular and long; one Scissors; one Interosteum; one Grooved Director; one set of Three-chain Hooks; one Chisel; one Raschismus Chisel, curved handle; one S. & S. Hammer; one Contourous Rib Shear; one Blow-pipe; half dozen Needles, assorted, and thread. In mahogany case, polished wood inside.

\$32 50

Anatomical Manikins and Papier-Mâché Models.



5665-5666



5670



5672



5674



5675

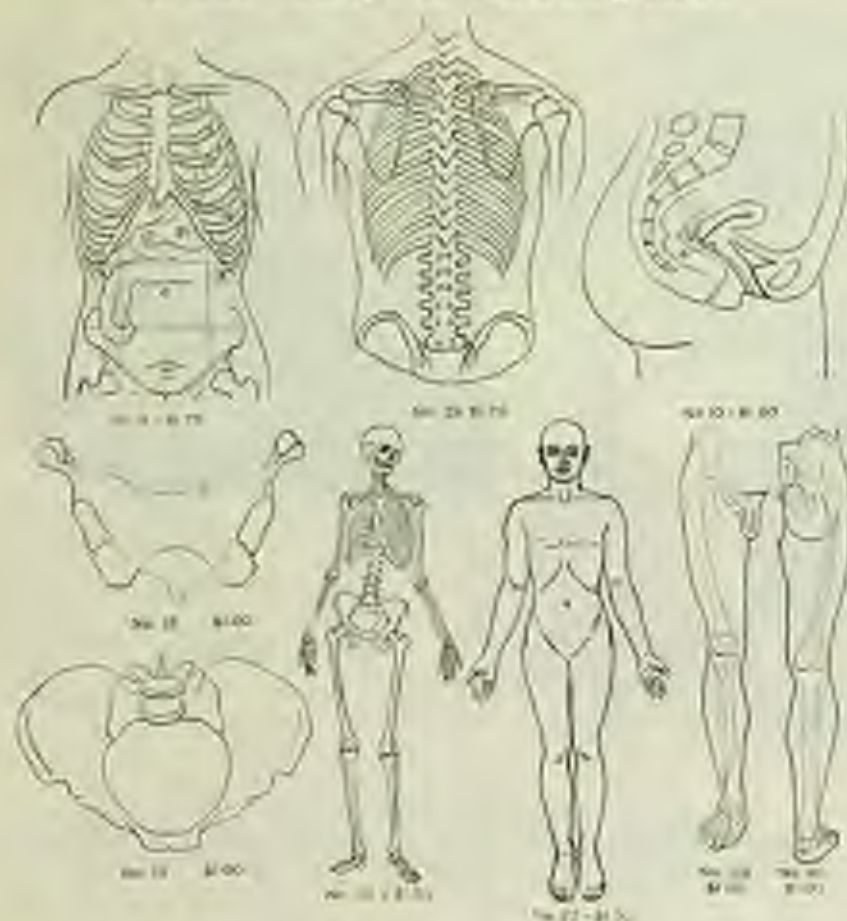


5673

5664	Manikin, Vogel's Anatomical Study, very complete, 18 x 30 inches	\$30.00
5665	Pill's Anatomical, 65 x 20 inches; female, with obstetrical supplement	15.00
5666	Pill's Anatomical, 65 x 20 inches; male or male sex	each 12.00
5667	Physician's Anatomical Aid, 11 x 15 inches	7.50
5668	Minder's, book form, 19 1/2 x 8 inches; sexless, \$2.50; female	3.00
	Descriptive circulars of Anatomical Manikins on application.	
5670	Brain, natural size, vertically divisible, with medulla as well as nerve roots	4.50
5671	divisible into four parts, the first ventricle freely exposed, otherwise like 5670	6.00
5672	Head, natural size, on plaque, vertical section; showing the bones of the skull, cavities, cerebrum, cerebellum and medulla oblongata, nasal cavity, trachea, tongue, palate, esophagus, etc.	6.00
5673	Head, natural size, on plaque; showing superficial muscles, arteries, veins, nerves and glands	8.00
5674	Eye-ball, ten times enlarged, with attachment of the muscles; divisible into cornea, choroid, vitreous body and crystalline lens	9.00
5675	Eye is the orbit with optical nerve, otherwise like 5674	10.00
5675a	Eye-ball, Beck-Steiger's (described on page 177)	7.00
5675b	Ere. Anterior's Dissected Model (described on page 177)	\$25.00 and 30.00
5676	Ear, ten times enlarged, with jama, dismountable	13.50
5677	Larynx with tongue, divisible into 2 parts, \$5.00; divisible into 5 parts	8.50
5679	Genitals, female, vertical section	5.00

All articles illustrated are designated by a

Outline Stamps for Recording Cases.



1. Nasal Passage, posterior	\$1.00	25. Thorax and Abdomen, anterior	\$1.75
2. " anterior	.75	26. " " posterior	1.75
3. Eye, right	.75	27. Thorax, outlines of viscera	1.25
4. " left	.75	28. Entire Skeleton	1.50
5. Chest and Abdomen	1.75	29. Head, lateral	.75
10. Abdomen and Female Organs, sectional	1.50	34. Thorax and Abdomen, lateral, right	1.50
11. " sectional, left	1.00	35. Thorax and Abdomen, lateral, left	1.50
12. " sectional, right	1.00	36. Head, anterior	.75
13. Pelvis, sectional	1.00	37. Foot, external, right	.75
14. " anterior	1.00	38. " internal	.75
15. Entire Nasal Passage, sectional	1.00	39. " seen from below	.50
16. Eye, sectional, side view	1.00	40. Entire Right Leg, anterior	1.00
17. Ear, entire organ, sectional	1.50	41. " " posterior	1.00
22. Entire Male Body, anterior	2.50	42. " Arm, anterior	1.00
23. " " posterior	1.50	43. " " posterior	1.00
Isking Pad		\$0.50	

We carry in stock a number of stamps not contained in the above list, and are prepared to furnish any special stamps which may be desired.

All articles illustrated are designated by a *.

Rubber Goods.†



FOUNTAIN SYRINGES.

5585*	"Family," white, with 3 pipes	1 qt., \$1.50; 2 qts., \$1.40; 3 qts., \$1.30	\$1.30
5586*	"Rapid Flow," " " " maroon rubber	2 qts., \$1.50; 3 qts., \$1.40	1.90
5587*	" " " " " " " extra fine	2 qts., \$2.50; 3 qts., \$2.40	2.75
5588*	" " " " " " " cloth inserted	2 qts., \$2.50; 3 qts., \$2.40	2.50
5589*	Fountain Syringe and Water Bottle Combined, "Rapid Flow," maroon, with three hard rubber pipes, 2 qts., \$1.00; 3 qts., \$1.10		1.25
5590*	Bath Syringe, white rubber, with three hard rubber pipes, in box		1.00
5591*	" " " " " " " maroon		1.40

Waterproof Sheet (net).

			Widths: 50 in.	45 in.	34 in.
5500*	Plavissin, white, single coated, No. 100	per yard	\$1.00	...	...
5501*	" " " double " No. 481	"	1.05	1.35	1.50
5502*	" " " " " No. 405	"	1.35	1.65	2.00
5503*	" " " " " No. 217	"	1.65	2.30	...
5504*	Featherweight, white, " for surgeons' aprons	"	1.20	...	...
5505*	Perfection, maroon, " superior quality	"	1.35	1.75	2.10
5506*	Mooseing Batiste, " for surgeons' aprons and pillow slips	"	1.25	...	...
5507*	Mackintosh Cloth, single " for surgeons' aprons and pillow slips	"	1.10	...	...
5508*	Rubber Dam, finest pure plant rubber	"	2.50	...	...
5509*	Rubber Bed Sheet, black, with cyclists, 45 x 72 inches				2.00

Prices Subject to Change Without Notice.

Rubber Goods. †



5715

5715



5726



5724



5720



5721



5722



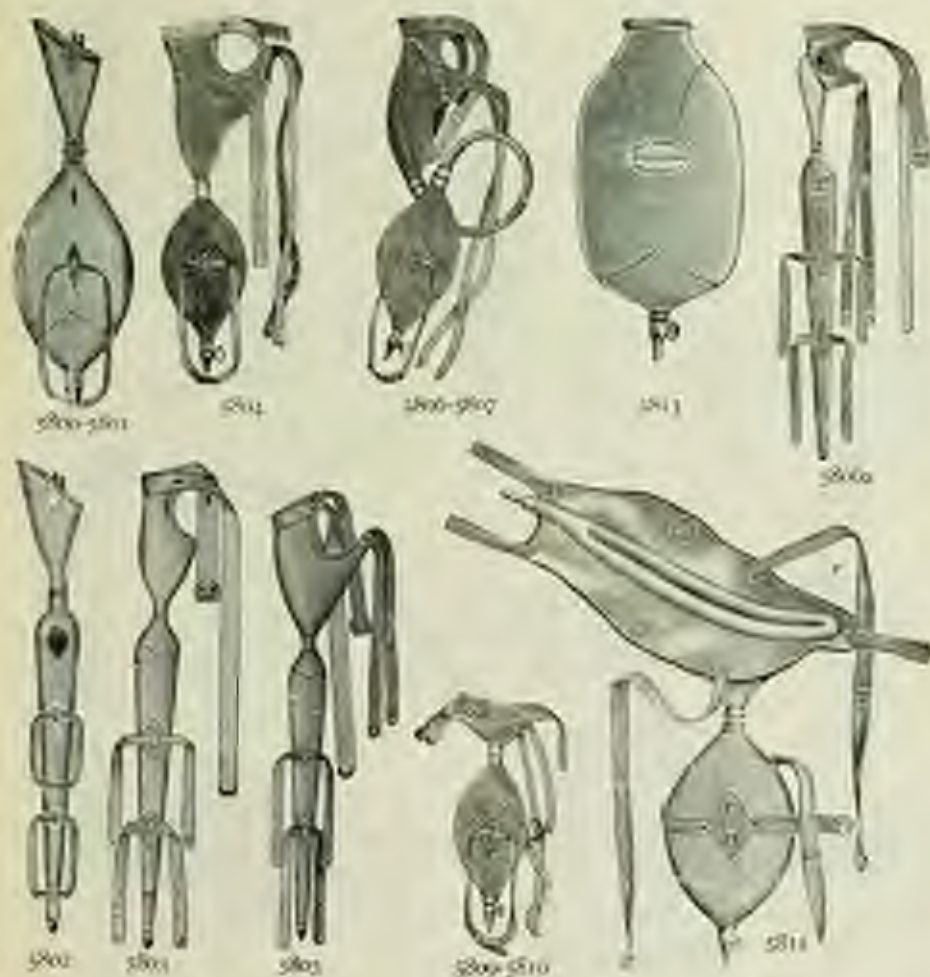
5731

5715*	Water Bottle, white, all rubber	2 qts. \$1.25; 3 qts.	\$1.40
5716	" " maroon	2 qts. 1.50; 3 qts.	1.65
5717	" " dark maroon, all rubber, extra fine, "Lentz Special"	2 qts. 1.80; 3 qts.	2.00
5718*	" " maroon, all rubber, "Seamless"	2 qts.	2.50
5719	" " cloth inserted	2 qts.	1.80
5720*	Invalid Cushion, 10 in. \$1.25; 12 in. \$1.65; 14 in. \$2.00; 15 in. \$3.00; 16 in. \$3.90; 17 in. \$3.75; 18 in. \$4.00; 20 in.		4.40
5721*	" " "Solid Comfort," 13 in. \$2.00; 15 in. \$2.40; 17 in.		4.80
5722*	" " horse shoe form 14 in. \$3.50; 16 in.		6.00
5723	Chair Cushion, half round, 17 1/2 in. wide, opening 6 in. diam.		5.75
5724*	Air Pillow, 9 x 13 in. \$2.60; 10 x 16 in. \$3.25; 12 x 18 in. \$4.00; 14 x 23 in. \$5.00; 18 x 28 in.		6.00
5725	Bath Inflator for any of the above air goods		.20
5726*	Head Cap, pure gum, for straps and tumes		.00
5730*	Rubber Tubing; sizes stated are internal diameter; prices per foot:		
	1/8 in. 3/16 in. 1/4 in. 5/16 in. 3/8 in. 1/2 in. 5/8 in.		
	White .07 .09 .11 .14 .17 .20 .25		
	Black .09 .14 .18 .23 .26 .30 .35		
	Maroon .09 .14 .18 .23 .26 .30 .35		

Prices Subject to Change Without Notice.

Rubber Goods. †

URINALS.



Model	Urinal	pure gum	day	male	small and median	each	\$2.00
5800*					large		2.25
5801*							2.50
5802*					improved, with belt		4.25
5803*							4.25
5804*							4.25
5805*							4.00
5806*					and right, male, adult's, the middle tubing can be detached for day use		5.50
5807*							5.40
5808					child's		4.75
5809*					female, adult's		3.50
5810*					child's		4.25
5811*					and right, female, latest pattern, with inflatable rim		5.50
5812	Balls for inflating rim of No. 5811 urinal, extra						.50
5813*	Urinal, pure gum, with stop cock, for travelers						2.00

Prices Subject to Change Without Notice.

All articles illustrated are designated by a *.

Rubber Goods.†

VAGINAL SYRINGES AND IRRIGATORS.



3514.† Vaginal Syringe, "Success," all hard rubber, with adjustable rubber tube. Easily introduced, and adapts itself perfectly; it can be taken apart for cleansing. Can be attached to any bath or fountain syringe. Nozzle, as illustrated, with four feet of tubing for outlet.

3515.†	—	Holmesworth's hard rubber tube, No. 204	\$1.75
3516.†	—	"Whirlpool" Syringe, hard rubber tube, No. 202	1.50
3517.†	—	Ladies', all rubber, No. 200	2.00
3518.†	—	Ladies', "Improved," No. 205	1.00
3519.†	—	Ladies', with hard rubber rotary spray tip, No. 200	1.50
3520.†	—	"Wonder," all rubber, with curved neck	1.50
3521.†	—	Nozzle, with screwcock, hard rubber	2.25
3522.†	—	"—" ditto, metal	.75
3523.†	—	"—" ditto, metal	1.00

Prices Subject to Change Without Notice.

Rubber Goods.†

HARD RUBBER SYRINGES.



5520.*	Syringe, Hard Rubber Box	1/2 oz., 80c.; 1 oz., \$1.00; 2 oz., \$1.30; 4 oz., \$1.60
5521.*	"	Universal with ear, post-nasal, uterine and rectal points
5522.*	"	Post-nasal, 1/2 oz.
5523.*	"	Stoma, 1/2 oz., with small side holes, can also be used as a uterine syringe
5524.*	"	Oesophageal, long tube 1/2 oz., \$1.00; 1 oz., \$1.30; 2 oz., \$1.60
5525.*	"	Rectal and ureters 1/2 oz., 80c.; 1/2 oz., 80c.; 1 oz., 80c.; 2 oz., \$1.10; 3 oz., \$1.25; 4 oz., \$1.40; 6 oz., \$1.60
5526.*	"	Perineal, straight point, 1/2 oz.
5527.*	"	Sigmoid, cone point, 1/2 oz.
5528.*	"	Soft rubber point, 1/2 oz.
5529.*	" Glass,	" " " " 1/2 oz.
5530.*	" Hard Rubber, conical point, for attaching soft rubber catheter, also for washing out nostrils.	2 oz., \$1.75; 4 oz., \$2.00; 5 oz., \$2.30

†All articles illustrated are designated by a *.

SECTION XV.

Scales.



5900



5901



5902



5903



5904

- 5900.* Scales, on cherry box, with seat hand carved decorations; heavy nickel-plated pans, glass dial and marble top. Diameter of pans 8 inches, capacity 20 lbs. A set of weights from 2 oz. to $\frac{1}{16}$ grain are included. \$32.00
- 5901.* Scales, on fine oiled walnut box, with bird's-eye maple panels; hand carved feet, natural finish, heavy nickel-plated pans, marble top and a set of weights from 2 oz. to $\frac{1}{16}$ grain included. Made in three sizes:
- | | |
|--|-------|
| No. 9, diameter of pans, 2 inches, capacity, 10 pounds | 15.00 |
| " 10, " " 3 " " " 15 " " | 17.00 |
| " 11, " " 4 " " " 25 " " | 22.00 |
- 5902.* Scales, Prescription, mounted on a French polished mahogany box, with drawers. Scales of best construction, all lacquered, solid nickel pans, adjusting screws on beam, and a set of weights from 2 oz. to $\frac{1}{16}$ grain:
- | | |
|--|-------|
| No. 12, beam, $2\frac{1}{4}$ inches; pans, $2\frac{1}{4}$ inches | 11.00 |
| " 13, " $3\frac{1}{4}$ " " " 3 " " pans, $\frac{1}{2}$ inch deep | 15.00 |
- 5903.* Scales, Pitch's, for pocket, no weights required, size when closed, $2\frac{1}{2}$ x $1\frac{1}{2}$ inches, with folding spatula. 1.00
- 5904.* Scales, Pitch's improved, for pocket, no weights required, with folding spatula. 1.00

All articles illustrated are designated by a *.

Scales.



5960



5967



5968



5969



5971

- 5966.* Scales, Army prescription pattern, on polished walnut box; scales take apart and pack away in drawer of box; a well finished and reliable scale, made in a mechanical way; well adapted for physicians' offices; a full set of weights are included. Made in three sizes.
- | | |
|---|---------|
| No. 0, beam, 8 in.; weights, 2 drachms to $\frac{1}{2}$ grain | \$ 6.00 |
| No. 1, " 7 " " " " " | 5.00 |
| No. 2, " 5 $\frac{1}{4}$ " " " " " | 3.50 |
- 5967.* Scales, Prescription, on polished walnut box with drawer. Scales have indicator pointing downward; slide attachment on needle; by skewing this to the right or left, scale is quickly balanced; has nickel-plated pans; entire scale lacquered; total height, 11 $\frac{1}{2}$ inches; a full set of weights are included. Diam. of pans, 2 $\frac{1}{2}$ in.; weights, 2 drachms to $\frac{1}{2}$ grain. 8.00
- 5968.* Scales, English make, in oak box; steel beam, and weights; this is a strictly reliable scale in all respects. Beam, 6 in.; pans, 1 $\frac{1}{2}$ in. 1.50
- 5969.* Scales, Trovatt's dispensing, handsomely finished scales for rough prescription work; has 1 $\frac{1}{2}$ -inch nickel-plated movable pans; a side beam in front of scale with a sliding weight; this beam is divided into 120 divisions, each division representing one grain; an extra row of metric divisions is placed on bottom edge of beam, each representing one decigram. Plectrum or shelf is attached to face of scale in which are fitted a set of solid brass weights, 2 oz. and down. Scale sensitive to a half grain. Diam. of pans, 1 $\frac{1}{2}$ in.; capacity, 2 oz. 8.00
- 5971.* Scales, Climax prescription. The scales have 1 $\frac{1}{2}$ -inch nickel-plated pans; cherry-lacquered box, and brass moldings; marble top; hinged cover; and is a reliable and substantial scale. A set of weights from 2 oz. to $\frac{1}{2}$ grain are included. Diam. of pans, 1 $\frac{1}{2}$ in. 12.50

*All articles illustrated are designated by a *.*

Medicine Cases.



5982



6004



6006



6001



6030

- 5982.* Hand Medicine Case, 21 vials, solid sole leather, containing all four dr. vials; size $10 \times 4\frac{1}{2} \times 2$ in. \$5.90
- 5990.* Hand Medicine Case, 28 vials, solid sole leather, containing 16 six dr., 8 four dr., 2 two and one-half dr. vials, 2 case for hypodermic syringe and a graduated minim measure; size $9\frac{1}{2} \times 4\frac{1}{2} \times 3\frac{1}{4}$ in. Choice of screw-cap or cork-stoppered vials. 6.45
- 6002.* Hand Medicine Case, 41 vials, solid sole leather, containing 20 one oz. vials, 20 three dr. vials, 3 one and one-half oz. glass-stoppered metal-cap bottles, and space $5\frac{1}{2} \times 4\frac{1}{2} \times 1$ in. for sundries; size $9\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ in. 7.50
- 6003.* Hand Medicine Case, 32 vials, solid sole leather, hand stitched, containing 20 four dr. vials and 4 one and one-half oz. glass-stoppered, metal-cap bottles; also space for sundries; size $11 \times 4\frac{1}{2} \times 3\frac{1}{2}$ in. 9.00
- 6004.* Buggy Medicine Case, 41 vials, solid sole leather, no metal hinges, containing 16 three dr., 12 four dr., 10 one oz. vials and 3 one and one-half oz. glass-stoppered, metal-cap bottles; also space for sundries; size $10\frac{1}{2} \times 5 \times 4\frac{1}{2}$ in. 8.00
- 6005.* Buggy Medicine Case, 26 vials, solid sole leather, smooth or walrus grain, containing 20 one oz. vials, 20 three dr. vials and 4 one and one-half oz. glass-stoppered, metal-cap bottles; also space for sundries; size $11\frac{1}{2} \times 5\frac{1}{2} \times 4\frac{1}{2}$ in. 11.25
- 6006.* Buggy Medicine Case, 26 vials, sole-leather covering, hand stitched over wooden frame, corners protected by heavy leather tips, very strong, containing 20 one oz. vials, 20 three dr. vials and 4 two and one-half oz. wide-mouth bottles; also space for sundries; size $12 \times 6\frac{1}{2} \times 5\frac{1}{2}$ in. 12.00
- 6030.* Safety Bottles, with glass stoppers and metal screw caps; for acids, iodine, etc. 2, 1½ or 2 oz., 25c.; 4 oz., 35c.; 6 oz., 45c.; 8 oz., 40c.

Medicine Cases.



6014



6001



6002



6031

- 6014.* Buggy Medicine Case, 25 vials, heavy black waterproof leather; containing 25 three-dr. vials, 20 one-oz. vials, 3 three-oz. bottles and space for sundries; size, 9 x 6 x 5 in. \$6.90
- 6001.* " " 25 vials, heavy black grained, waterproof leather; containing 25 three-dr. vials, 24 one-oz. vials, 3 three-oz. bottles and 4 two-oz. glass stoppered metal cap bottles, also large space for sundries; size, 11 x 6 1/2 x 5 1/2 in. 6.75
- 6002.* " " 20 vials, heavy black grained leather, containing 25 three-dr. vials, 14 one-oz. vials, 4 two-oz. screw-cap jars, 4 two-oz. glass stoppered metal cap bottles, also large space for sundries; size, 12 1/2 x 6 1/2 x 6 1/2 in. 8.25
- 6031.* Combination Buggy and Satchel Medicine Case, finest seal grain stiff cow-hide, hand stitched; containing 25 three-dr. vials, also space 12 1/2 x 4 1/2 x 1 1/2 in. for sundries; size, 12 1/2 x 5 1/2 x 5 1/2 in. 12.00
- 6032.* Buggy Medicine Case (patented); 60 vials, heavy black sole leather, all edges hand stitched; containing 47 six-dr. vials, 32 one-oz. corked or screw cap vials and 7 one-and-a-half-oz. metal screw cap bottles, space for hypodermic syringe and pocket; size, 11 1/2 x 6 1/2 x 5 in. 12.50

This case is so arranged that the vials and leaves to which they are attached can be extended as illustrated, they being attached to extension brackets at sides, thereby bringing all vials and labels into full view.

SECTION XVI.
Electrical Apparatus.
CHLORIDE OF SILVER DRY CELL BATTERIES.



6120.* Faradic Dry Cell.

The illustration shows a group of four Chloride of Silver Interchangeable Faradic Dry Cells, attached to a hard rubber plate, as used in the larger Faradic Batteries. Some batteries require but one cell to operate them, while others, having different coils, require more. The life of these cells is to be measured only by the actual work they perform—averaging in the small batteries 40 hours, in the large ones 100 hours—and there being no waste when not in use, they are most economical to maintain. As the cells when exhausted can be removed for 75 cents each, the cost of operating one is practically only three-quarters of a cent per hour. They are so simply arranged and connected that exhausted cells can easily be removed and new ones quickly inserted.

Cost of New Faradic Cells

each \$2 00

Cost of Restoring Exhausted Faradic Cells

75

6121.* Galvanic Dry Cell.

The illustration shows a series of Galvanic Interchangeable Dry Cells, which are beyond a doubt the most compact and convenient cells on the market. They are also the cleanest and most efficient cells ever offered to the profession. For a long time the latest Electro-Therapists have recognized that for medical work it is not desirable to have a cell producing too high a current, as such a current is dangerous in certain kinds of work; but what is most desirable is a current of sufficient strength that shall at the same time have the element of constancy. The Chloride of Silver Dry Cells produce the only current that is perfectly constant.

In order to get sufficient pressure it is frequently necessary to have a large number of cells in a physician's battery, and as most practitioners desire to have a portable apparatus, a compact arrangement of the cells is absolutely necessary. These cells are so small and light that a group of fifty or more, as illustrated, can be arranged in a battery which weighs so little that a child can easily carry it. Exhausted cells may be readily replaced by new ones, and without the return of the battery. Any one cell will always fit into the place from which another has been removed. Our method of renewing battery cells is to give entirely new cells in exchange for exhausted ones, and as the silver elements in exhausted cells have a certain value, in making exchanges we charge only one-third the regular price of new cells.

Cost of New Galvanic Cells

each \$0 99

Cost of Restoring Exhausted Galvanic Cells

39

Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL FARADIC BATTERIES.



6123

6125

6123.* Pocket Faradic Battery No. 7, two cells \$10 00

Restoring Exhausted Cells, 75 cents each. (Postage, 15 cents.)

The two cells will yield 100 hours of actual work, at a cost of operating of only 15 cents per hour.

This instrument is put up in a handsomely finished mahogany case, furnished with a pair each of conducting cords, nickel-plated electrodes, ebonized wood handles and flannel-covered carbon electrodes. The induction coil, giving three currents—primary, secondary and combined—is of superior make and finish, and has no equal in the uniformity and smoothness of its current.

6124. Pocket Faradic Battery No. 7A, one cell \$6 50

Restoring Exhausted Cell, 75 cents. (Postage, 5 cents.)

The life of the cell is 40 hours of actual work.

Owing to the care with which this battery is made, the currents are perfectly smooth. It will furnish a primary, a secondary or a combined current, as desired. All three of the currents can be modified to suit the most delicate child, and can be increased to meet the requirements of an adult. The apparatus is provided with a pair each of conducting cords, handsome nickel-plated electrodes and ebonized handles.

6125.* Upright Faradic Battery No. 4, with two cells, with Circular Willms' Current Controller \$15 00

Restoring Exhausted Cells, 75 cents each. (Postage, 15 cents.)

The life of the two cells is 100 hours of actual work.

This battery is furnished in a handsomely finished mahogany case, presenting an elegant appearance, all the metal parts being heavily nickel-plated.

It gives three currents: the primary (or so-called direct) current, the secondary (or induced) current, and a combination of the primary and secondary currents. A roomy compartment is provided in the lower part of the battery case, containing a pair each of insulated handles, sponge electrodes, nickel-plated electrodes and silk-covered conducting cords.

The current in this battery is graduated by means of the Willms' Current Controller; with its aid the current can be administered so mildly as to be scarcely perceptible to the most nervous or delicate person, and can be increased so gradually and evenly that no shock will be given.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL FARADIC BATTERIES.



6126

- 6126.* "Compact" Faradic Battery No. 20, four cells, with Circular
Willms' Current Controller \$18 00

Restoring Exhausted Faradic Cells, 75c each.

Similar to No. 7, but with four cells, yielding twice the strength of current, and with the addition of the circular controller, which insures a very gradual increase without the slightest shock. The outfit includes a pair each of nickel plated electrodes, two quality sponge electrodes, etched wood handles and silk covered conducting cords.

- 6127.* "Satchel" Faradic Battery No. 4, four cells, with large size
Willms' Current Controller \$25 00

Restoring Exhausted Faradic Cells, 75c each.

In this battery four coils are supplied—a primary and three secondaries—the third secondary being extremely high tension, capable of glowing a Geissler tube. Two sets of switches control these coils, placing seven distinct currents at the disposal of the operator. There are also provided a Current Reverser, which permits the change of polarity without removing the electrodes from the patient; a Contact Breaker, very useful for diagnostic purposes and in paralysis, and the usual accessories.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

All instruments illustrated are designated by a *.

Electrical Apparatus.

CHLORIDE OF SILVER FARADIC BATTERIES.



6132

6132.* Faradic Battery No. 8, four cells, with Willms' Current Controller. \$35.00

This battery embodies in its compact form every device that has proven successful in faradization.

The four cells are connected with a selecting switch, permitting the use of either two, three, or all four cells. The coil embraces a primary and four secondaries, which, through the medium of switches, can be used either singly or in combination, placing nine different currents at command. The fourth secondary is wound for extra high tension, capable of illuminating an eight-inch Geissler tube. In addition to the rapid interrupter, this battery is fitted with a Slow Interrupter, which, when set, permits of the automatic interruption of the current any desired number of times per minute.

Above unit includes further a Current Reverser for changing the polarity without removing the electrodes from the patient, a Contact Breaker, very useful for diagnostic purposes and in paralysis, and these accessories: one pair best quality sponge electrodes, one ebonized glass handle, one ebonized interrupting handle, one pair silk-covered conducting cords. The Willms' Controller is of the large size, offering a larger range of control.

6130. Faradic Battery No. 9, four cells, with Willms' Current Controller. \$25.00

Quite similar to No. 8. Does not have the slow interrupter. The coils consist of a primary and three secondaries, the third secondary being very high tension, capable of glowing a Geissler tube. Two sets of switches control the coils, yielding seven distinct currents.

6128. Faradic Battery No. 14, four cells, with Willms' Current Controller. \$20.00

Similar to No. 8. Does not have the slow interrupter. The Willms' Controller is of smaller size. The coils consist of a primary and two secondaries, placing five individual currents at disposal by ready adjustment of switches.

Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL GALVANIC BATTERIES.



6135



6137

135.* Galvanic Battery No. 5.

5-cells	4 1/2 x 4 1/2 x 3 1/2 in.	weight, 2 1/4 lbs.	\$60 00
10-cells	5 1/2 x 5 1/2 x 3 1/2 in.	3 1/2 lbs.	75 00
15-cells	6 1/2 x 5 1/2 x 3 1/2 in.	4 lbs.	90 00

Intended for physicians' and family use in the treatment of cases requiring a small amount of current, and will be found of sufficient strength for work about the head, for the electrolysis of small growths, the removal of superfluous hair, treatment of strictures of the urethra, etc. The cells are arranged in series, so that any desired number may be used. The following accessories are included: one pair of conducting cords, one pair of sponge electrodes, and a nut-wrench for removing cells.

6137.* Galvanic Battery No. 1.

	Compacities	Weight.	
22-cells	10 1/2 x 5 1/2 x 7 1/2 in.	8 lbs.	\$27 00
32-cells	10 1/2 x 5 1/2 x 7 1/2 in.	8 1/2 lbs.	35 00
50-cells	11 1/2 x 5 1/2 x 7 1/2 in.	10 1/2 lbs.	50 00
60-cells	12 1/2 x 5 1/2 x 7 1/2 in.	12 lbs.	60 00
84-cells	13 1/2 x 5 1/2 x 7 1/2 in.	18 1/2 lbs.	82 00
100-cells	14 1/2 x 5 1/2 x 7 1/2 in.	20 lbs.	95 00

This Battery is provided with a Current Reverser, a Water Rheostat to regulate the strength of the current, and a pair of Cell-Selecting Cords which allow the use of any number of cells desired, leaving the remaining cells inactive.

A tray fitting within the box top and a drawer are intended for holding cords and electrodes. The following accessories are included: a pair of silk covered conducting cords, a pair of best quality sponge electrodes, chlorized plain handle, one chlorized interspersing handle, a nut-wrench for removing cells, a screw-driver and nickel-plated plugs for testing cells.

While a 24-Cell Battery will furnish sufficient strength of current for acute cases, we would recommend the acquisition of a 32-cell, or preferably a 50-cell Battery, which are more especially the latter, strong enough for any ordinary cases the general practitioner comes in contact with. The large number of cells are necessary for Specialists, Hospitals and Sanitariums.

In every detail these instruments are made in the very best manner, and possess every quality required in a first-class battery.

Based on the average resistance offered by the human body in ordinary work, generally considered to be five thousand ohms or more, these galvanic batteries have a capacity of over seven hundred actual working hours.

For a detailed description of the Chloride of Silver Galvanic Cell see previous page.

Restoring Exhausted Galvanic Cells, 30 cents each.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL GALVANIC BATTERIES.



6139

6139.^a Galvanic Battery No. 11.

	Compactness	Weight.	
25-cells . . .	23 x 8 1/2 x 11 3/4 in. . .	27 lbs. . .	\$63 00
35-cells . . .	23 x 8 1/2 x 11 3/4 in. . .	33 lbs. . .	72 00
50-cells . . .	23 x 8 1/2 x 11 3/4 in. . .	49 1/2 lbs. . .	85 00

The Cells in this battery are arranged in five series of respectively five, seven or ten cells. Each group of cells is connected to a Cell-Selector Switch by means of which any one group of cells or all of them may be placed in the circuit.

This battery is fitted with a first-class Milliamperes Meter for the exact measuring of the current and for applying it in desired doses; also with the Willis Current Controller and with a Current Reverser.

6140. Galvanic Battery No. 10.

Same as No. 11, but without Milliamperes Meter; deduct cost of latter, viz., \$20 00.

6143. Galvanic Battery No. 14.

Same as No. 11, but has in addition an Automatic Rheotome capable of furnishing a great variety of interruptions ranging from six to nine hundred per minute, with a switch for placing the instrument either in or out of the circuit. This is the most complete galvanic battery and responds to any demand where only the constant current is needed. Add \$10 00.

6145. Galvanic Battery No. 15.

Same as No. 10, but without Milliamperes Meter; deduct \$20 00 from above prices.

Restoring exhausted Galvanic Cells, 30 cents each.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

All instruments illustrated are designated by a *.

Electrical Apparatus.

CHLORIDE OF SILVER DRY CELL COMBINATION GALVANIC AND FARADIC BATTERIES.



6653

6147. Combination Galvanic and Faradic Battery No. 17.

25 cells, \$75.00; 15 cells, \$85.00; 50 cells, \$100.00

Besides the Galvanic Cells, the battery contains four Faradic Cells. The Faradic cells comprise a primary and two secondaries. The battery is provided with Milliamperes Meter, Williams' Current Controller, Switch for combining the galvanic and faradic currents when desired, Cell Selector, Current Reverser, Current Breaker, Electrodes and Cords.

6153.* Combination Galvanic and Faradic Battery No. 12 \$115.00

Is equipped with fifty Galvanic Cells, four Faradic Cells, superior high-tension Coils (primary, four secondary—nineteen distinct currents), Milliamperes Meter, Williams' Current Controller, Automatic Rheostats, Cell Selector, Switch for combining the currents, Current Reverser, Current Breaker, Electrodes and Cords.

Restoring Exhausted Galvanic Cells, 30 cents each.

Restoring Exhausted Faradic Cells, 75 cents each.

Full directions accompany each battery.

In the Chloride of Silver Dry Cell there is no waste when not in use.

The current remains uniform during the whole life of the cell.

Special Catalogue on Application.

*All articles illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Electrical Apparatus.

DRY CELL FARADIC BATTERIES.



6159



5171

- 6159.* "Voltamp" Dry Cell Faradic Battery, 100 8 x 3 x 5 in. 85.00
Extra "Voltamp" Cells, 45 cents each.

A handsome and complete electro-medical outfit at a moderate cost. It furnishes three different primary, secondary and combined. A complete set of handles, electrodes and cords are included.

6160. "New Domestic" No. 1 Dry Cell Faradic Battery, upright style 90.00
Extra "New Domestic" Cells, 45 cents each.

Outfit includes a large nickel-plated foot plate and a pair each of hand electrodes, sponge-covered disks, wooden handles and cords; also a manual (extra copies 25 cents each) on the application of the faradic current for the self-instruction of patients and for reference to physicians.

- 6171.* "Keystone" Faradic Battery No. 3, with slow and rapid interrupters. 85.00
Extra "Keystone" Faradic Cells, 25 cents each.

The most complete type of faradic battery at a moderate price. It is equipped with two first-class dry cells, a tube modifier, enabling the operator to graduate the current so finely that it may be applied with perfect safety to the most sensitive parts of the body, such as the eye, the mucous membrane of the throat, vagina, rectum, etc.; superior coils, containing a primary and four secondaries of different sizes and lengths of wire, so arranged that the primary and secondaries may be used independently or in combination, giving nine distinct currents at the command of the operator. In addition to the rapid interrupter it is supplied with a slow interrupter of the most approved pattern, permitting any desired number of interruptions to be made.

The case is of polished walnut, provided with lock and carrying strap, and contains a pair of silk-insulating cords and a pair of sponge electrodes with polished wood handles.

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

DRY CELL GALVANIC AND FARADIC BATTERIES.



6172



6173

6172* "Keystone" Dry Cell Galvanic Battery.

12 cells, without pole changer	\$13.50
16 " " " "	17.00
20 " with " "	20.00
24 " " " "	22.50
30 " " " "	25.00

This Battery is operated by a number of dry cells of approved type, as of a small model, so arranged that any desired number of cells may be readily selected by turning the cell selector switch to the number required as stamped along the contact buttons. The life of the cells is from six to twelve months, varying with the amount of service.

Contained in a neat mahogany case, with carrying strap, and including a pair each of sponge electrodes, handles and silk conducting cords.

6173* "Keystone" Dry Cell Combination Galvanic and Faradic Battery.

16 galvanic and 2 faradic cells	\$25.00
20 " " 2 " "	28.00
24 " " 2 " "	30.00
30 " " 2 " "	33.00

Of same general construction as Fig. 6172, but with the addition of the faradic coil and cells. The coil consists of a primary and two secondaries. Provided with switch for obtaining the currents either separately or in combination, also with current reverser.

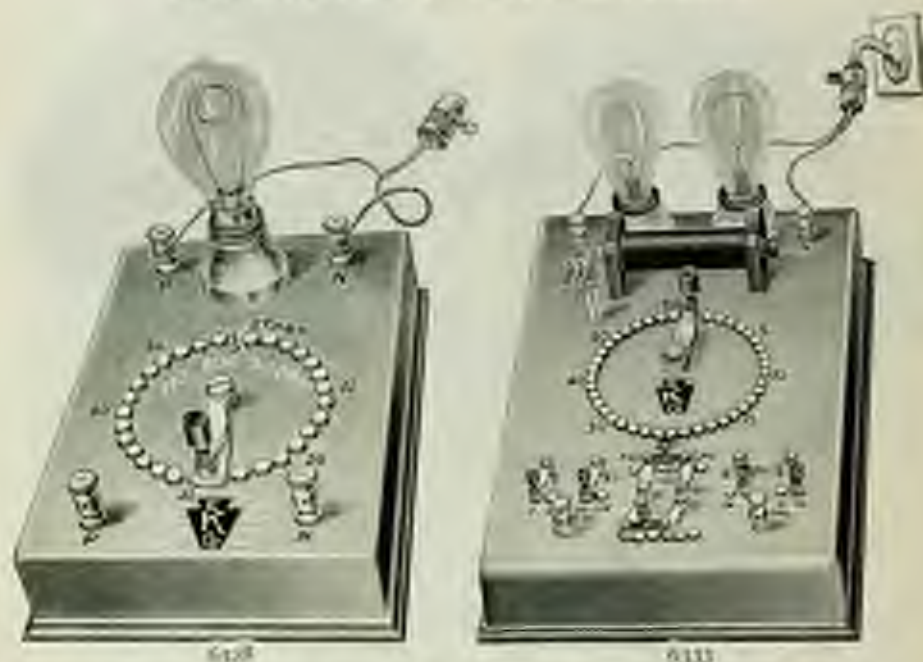
Contained in a neat mahogany case, with carrying strap, and including a pair each of handles, sponge electrodes and silk conducting cords.

Extra "Keystone" cells for either galvanic or faradic 25 cents each.

*All instruments illustrated are designated by a **

Electrical Apparatus.

CONTROLLERS FOR 110 VOLT DIRECT CURRENT.



6328. "Keystone" Galvanic and Lamp Controller for 110 volt electric light current, with cord, connecting plug and electrodes \$15.00

This apparatus is one of the most simple and at the same time most perfect controllers for 110 volt direct electric light current. It is divided into 40 steps, and will give from 1 to 100 milliamperes on any step on the scale without increasing the voltage, a point of great importance, as the full amperage can be obtained at a low voltage, thus avoiding all pain to the patient.

The special points claimed for this controller are: convenience and readiness of action; constancy and uniformity of current, and absolute safety against any shock to patient.

The controller can also be used for diagnostic, urethroscopic and cystoscopic lamps of different voltages.

It is mounted on a highly polished base in either oak, walnut or mahogany; all exposed metal parts are heavily nickel plated, making a very handsome and durable apparatus.

6330. "Keystone" Compound Galvanic, Faradic and Lamp Controller, for 110 volt electric light current, with cord, connecting plug and electrodes \$25.00

6333. "Keystone" Improved Galvanic, Faradic and Lamp Controller, for 110 volt electric light current, with cord, connecting plug and electrodes 35.00

With the addition of a Slow Interrupter 40.00

Similar in construction to Controllers Nos. 6328 and 6330, but arranged with switches in such manner that the galvanic and faradic currents may be obtained not only separately, as in the former apparatus, but also in combination. Furthermore, it is provided with a current reverser and with an extra switch, which, when placed, reduces the strength of the indicated current to one-half, making it available for treatment of the eye and other very sensitive parts.

All articles illustrated are designated by a *

Electrical Apparatus.

5334* "Keystone" Electric
Therapeutic Wall
Cabinet No. 5, for
110 volt direct cur-
rent. \$85.00

This very desirable office outfit consists in the latest forms of controlling and recording devices all mounted on a plate of highly polished metal and exhibited in a finely finished cabinet with sliding glass door and with drawer at bottom. All parts are furnished either nickel plated or finished in brass, as desired, and are class in every respect. Every switch is marked plainly, so that it is easy to obtain the best service from the apparatus.

The Faradic Coil is mounted at the back of the plate; on face is provided a switch with which to select either of six different strengths of current. Further provided are a switch for selecting either primary or secondary faradic current, a rapid and a slow interrupter, a graduated shunt controller for the galvanic current, a pole changer, a deWattsville switch for the combined application of the galvanic and the faradic currents, and an improved, absolutely dead-beat, milliamperes meter with low and high reading; further, a switch to cut off all current.

The dimensions of the cabinet are 30 inches high, 22 inches wide, 18 inches deep. Furnished in either oak or mahogany, as selected.

5335. Chloride of Silver Dry Cell Combination Galvanic and Faradic Wall Cabinet. \$150.00

The outfit includes fifty Chloride of Silver Galvanic Cells, four Chloride of Silver Faradic Cells and every superior device for the therapeutic administration of the galvanic and faradic currents. Dimensions, 40 inches high, 22 inches wide, 12 inches deep.

5337. Chloride of Silver Dry Cell Combination Galvanic and Faradic Table Cabinet, including fifty Galvanic and six Faradic Cells. \$180.00

Fully Descriptive Literature on Application.

All instruments illustrated are designated by a *.



5334

Electrical Apparatus.

6335.* "Keystone" Electro-Therapeutic Wall Cabinet No. 1, with motor for 110 volt direct current - - - \$200.00

6336. "Keystone" Electro-Therapeutic Wall Cabinet No. 2, with twin-motor generator for 110 volt alternating current - - - 250.00

This cabinet combines more special features and is more complete in a single apparatus than any other cabinet on the market. It has the latest and most approved controllers and transformers, all mounted on a white Italian marble plate, contained in a highly finished, hardwood, artistic cabinet with sliding glass door. At bottom are two drawers for electrodes, etc., and a separate compartment to hold the direct current motor transformer. All metal parts are of heavy brass, finely finished and lacquered. The whole apparatus is very simple to operate, as all the switches are marked plainly.

The currents obtainable through the various switches and regulated through the controllers are:

Galvanic Current with or without meter in circuit;

Faradic Current through rapid or slow interrupter, giving current from 100 to 1500 feet of wire in circuit;

Combined Galvanic and Faradic Currents through DeWatteville switch;

Sinusoidal Current, under perfect control;

Resisted (Cautery) Current, controlled so absolutely as to heat with safety any electrode from the small eye instrument to the largest knife electrode used in general practice.

Further provided is a rheostat to regulate the speed of the motor for operating surgical drills, a switch to change the polarity of the galvanic and faradic currents without changing electrodes; also a controller for diagnostic lamps. The latest improvement is a new form of absolutely *dead-beat* milliamperometer with low and high reading.

The cabinet is furnished with two sets of binding posts, so that cautery and light can be obtained and used at the same time.

Height, 41 inches; width, 25 inches; depth, 11 inches. Selection of either oak, cherry, mahogany or walnut finish.

These same cabinets, with the additional features of an Eye and Ear Museum and of a special Controller, which permits the reduction of the strength of the galvanic current and its very mild increase or decrease, add \$25.00.

*All instruments illustrated are designated by a *.*



6335

Electrical Apparatus.

ELECTRODES.



6212



6217	Electrode,	Hair Brush		\$1 50
6218	"	Comb, seven points	small, 60; long	75
6219	"	Comb, large, with handle		2 50
6220	Wheel or	Rolling Rheophore, with insulated metal points		1 50
6221	Electrode,	Eye Cup, to be filled with water		1 00
6222	"	for Eye, small		75
6223	"	Ear, with hard rubber cone-shaped insulating protector		2 75
6224	"	Tongue, with insulated stem		50
6225	"	Cathartic, Morton's		6 00
6226	"	for Nose, insulated stem		50
6227	"	irides-plated		75
6228	"	Ear and Nose		75
6229	"	Tongue		50
6230	"	Larynx		50
6231	"	with round sponge for external application		60
6232	"	Paralysis of the Vocal Chords, Mackenzie's improved		3 50
6233	Electrolysis Needle Holder with Interrupter, hard rubber			1 00
6234	"	Fox's		1 50
6235	"	with coiled and tips to hold 1 to 6 needles; without needles, 25c to 50c		75
6236	"	Needles, platinum	dozen, \$2 00; each	30
6237	"	gold plated, straight, half curved and full curved, each		45
6238	"	Brooches, doz., \$1 00; each, 10c; Scott Needles, doz.		30
6239	Electrode, Erb's pattern, spine tipped, large or small			85
6240	Needle Disc, for removing wine marks			2 50

(All instruments illustrated are designated by a +)

Electrical Apparatus.

ELECTRODES.



6219. ^a	Electrode, Intra-Uterine, insulated	\$7.00
6220. ^a	" Vaginal and Os Uteri, insulated	1.00
6221. ^a	" " all metal, large or small	.50
6222. ^a	" " cylindrical tip, insulated stem, large or small	1.00
6223. ^a	" " partly insulated	1.00
6224. ^a	" " Minors-Polar, with finely polished insulated handle	1.00
6225. ^a	" " " " insulated	1.00
6226. ^a	" " " " three sizes, $\frac{3}{8}$, $\frac{1}{2}$ and 1 in. each	1.00

Special Electrodes made to order after drawings and directions.

Electrical Apparatus.

ELECTRODES.



6228.*	Electrode, Vaginal, bi-polar, insulated	\$2.00
6251.	Uterine Cup, with insulated stem, three sizes	each 1.50
6253.	" " intra-uterine stem and long insulated stem	1.50
6255.*	Intra-Uterine, spiral, flexible and insulated	1.50
6254.*	" " inflexible, insulated	1.00
6255.	Catheter, silver, ball curved or half curved	each 1.50
6257.*	" " for the removal of urethral stricture by electrolysis, six sizes, straight or curved, insulated stem, each .50; set of six in case	3.75
6258.	Metallic Sound, nickel plated, $\frac{1}{16}$, $\frac{1}{8}$ and $\frac{1}{4}$ in. diam., each	.50
6259.*	Ovary, one dozen with insulated stem, curved or straight	2.00
6260.*	" " without insulated stem	1.50
6261.	Rectal, partly insulated	1.00
6261.*	" " all metal	.50
6264.	" " with ball and long insulated stem	1.00
6266.	Case, Genito-Urinary; contains nickel plated metallic Souds, flexible and inflexible Urethral Electrodes, and twelve assorted Olives, numbered from 10 to 32, French scale	3.50
6268.*	Stomach, Esophagus, deglutable, for direct electrification	2.25
6269.*	Esophagus, Esophagus, deglutable, for direct electrification	1.50
6270.	Gastro-Diaphane, Eithorn's, see fig. 3155, page 284	7.50

Electrical Apparatus.

ELECTRODES.



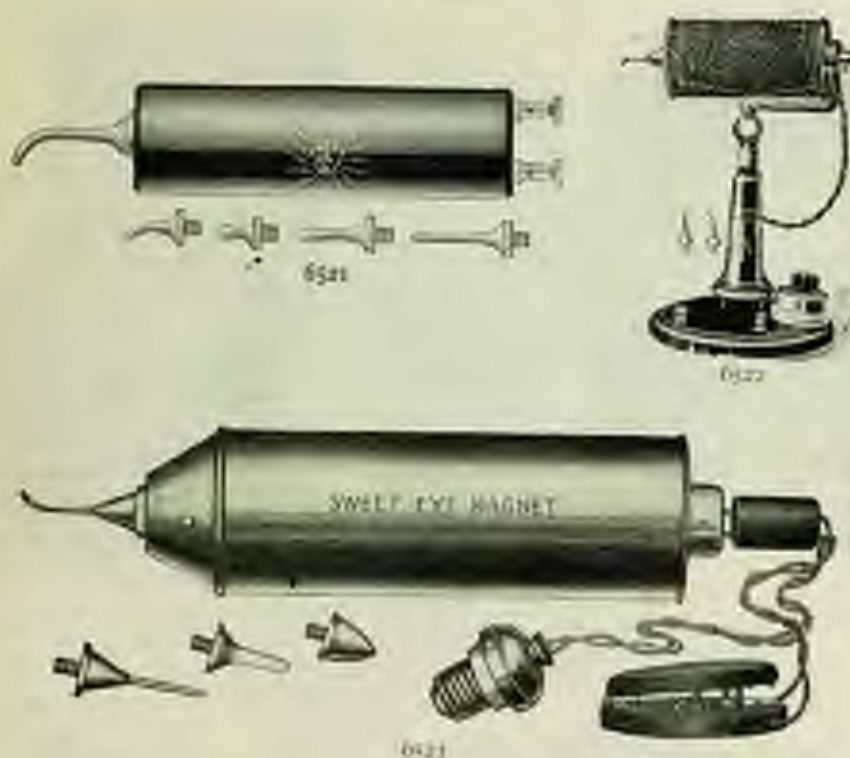
6272.*	Electrode, Eye, single, gold plated	\$2.00
6273.*	" " double	1.00
6274.*	" " Knight's	.50
6275.*	" " Sponge and Handle	per pair 1.00
6276.*	" " Positive Electrode, Shumaker's	5.00

All instruments illustrated for designated P. & S.

"Our own well-equipped factory is at your command for the production of any special instrument which you desire made. Our mechanics are experts in their various specialties. Our charges are as moderate as consistent with first-class work."

Electrical Apparatus.

EYE MAGNETS.



- 6521.* "Keystone" Electro-Magnet, for removing particles of steel from the vitreous chamber; for battery current 20 00
for 110 volt direct electric light current 8 00

These magnets are quite powerful, and will be found very useful in general work.

- 6522.* "View" Electro-Magnet No. 2, "The Little Giant," for use on either 110 or 220 volt direct current, including stand 25 00
Rheostat extra \$5 00.

Will be found a most useful addition to the oculist's outfit or for a small hospital. Very powerful, having a lifting power of about 100 lbs. Adjustable in various angles.

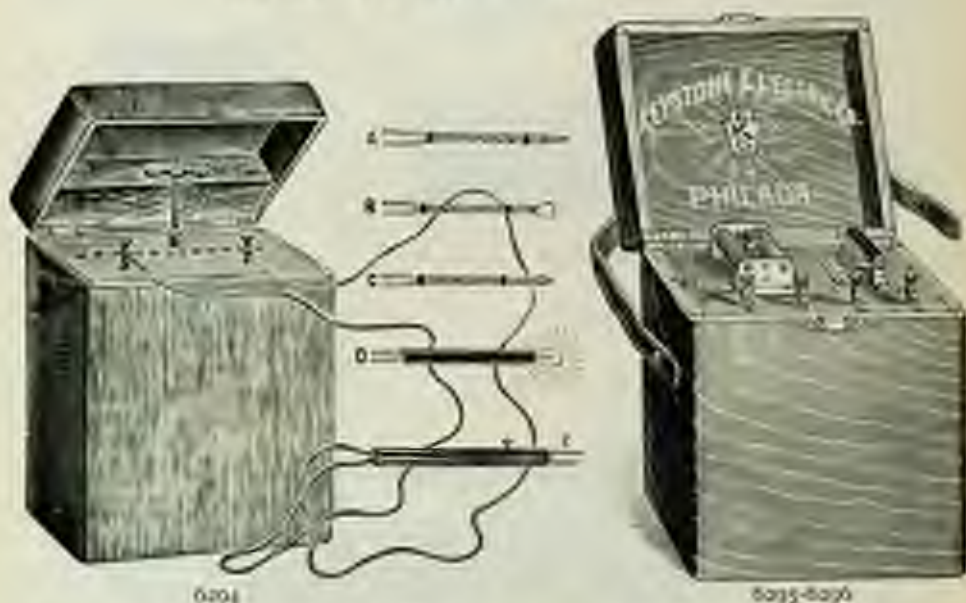
- 6523.* "Sweep" Electro-Magnet, for use on the 110 volt direct current; complete, as illustrated, \$35 00; fitted in leather-covered case 40 00
The most powerful portable eye magnet for its size.

6526. "McIntosh" Electro-Magnet, for battery current 7 50

*All instruments illustrated are designated by a *.*

Electrical Apparatus.

CAUTERY AND ILLUMINATING BATTERIES.



- 6094.* "Feddern" Cautery and Diagnostic Lamp Battery, complete with Conducting Cords, Universal Handle with Interrupter, one Knife, one Carotte, one Point Electrode and one Illuminating Lamp . . . \$12 50
 Extra Cautery Electrodes, a, b or c, light, to suit "Feddern" Battery . . . each 1 00
 Extra Miniature Lamp, one candle power, mounted on hard rubber handle . . . 1 50

The degree of heat is controlled in this battery by an elevating rod automatically regulating the immersion of the elements. The current discharged is in proportion to the immersion of the plates, hence the amount may be regulated to suit the electrode in use and work required.

Full directions for use and care of battery, and formula for solution, accompany each battery. We can furnish the cautery fluid at 25 cents per quart; bottle 5 cents extra.

- 6095.* "Keystone" Dry Cell Cautery and Diagnostic Lamp Battery . . . \$15 00
 6096.* "Keystone" Dry Cell Cautery and Diagnostic Lamp Battery; complete outfit, with Seiler's Cautery Handle, Cautery Cords, three Cautery Knives and Diagnostic Throat Lamp with Shield . . . 25 00

This battery is operated by zinc dry cells (cost of new cells, 30 cents each). A commutator connects the cells in either series or parallel as required for either cautery or illuminating work. Size of case, 10x10x11 inches, with carrying strap.

6097. Lintz's Dry Cell Illuminating Battery . . . \$12 00

Operated by eight standard type dry cells (cost of new cells, 25 cents each); with special rheostat, which controls lamps from the lowest voltage up to 12 volts. Size of case, 11½x6½x11 inches; with carrying strap.

6098. Lintz's Dry Cell Illuminating Battery, small . . . \$5 50

Quotations on Storage Batteries Furnished on Application.

All instruments illustrated are designated by a *.

Electrical Apparatus.

DIAGNOSTIC OUTFIT.



6310

- 6310.* General Diagnostic Set, comprising illuminating battery, cords, anroscope with three specula, laryngoscope, tongue depressor, general diagnostic illuminator, two Koch's urethroscopes (any sizes) with one light carrier, rectal tube or proctoscope with light carrier . . . \$40.00
6311. General Diagnostic Set, same outfit as No. 6310, but without rectal tube and light carrier . . . 33.00

This style of a general diagnostic set will be found of inestimable worth to the general practitioner, as it comprises a select number of the most up-to-date electrically lighted instruments for a variety of cases for both office work and bedside use.

The battery consists of four standard-type dry cells, situated in a leather-covered case, with rheostat for regulating the current.

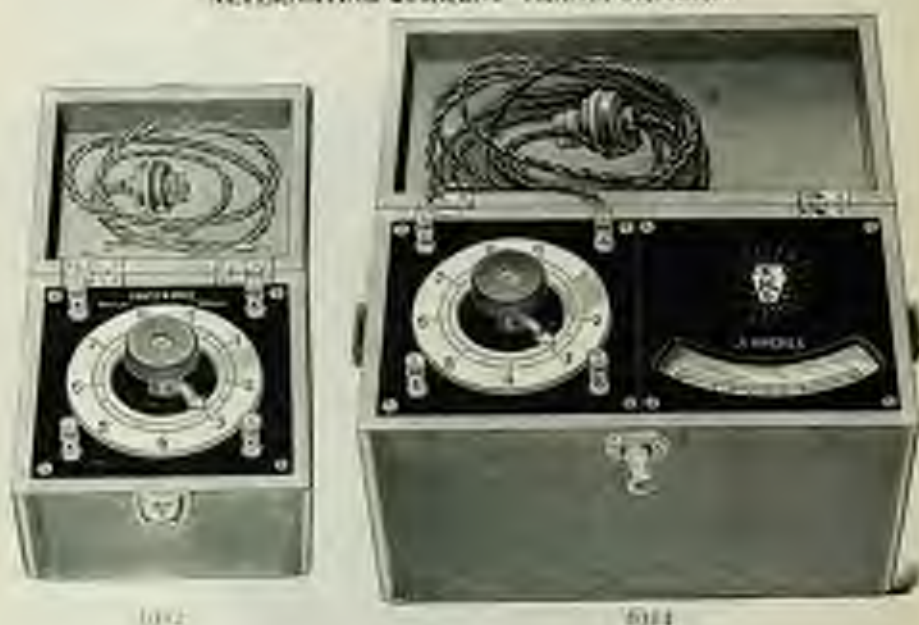
We invite correspondence regarding the contemplated purchase of any electrical apparatus or appliance.

*All instruments illustrated are designated by a *.*

"Our factory is equipped to repair, sharpen, polish and nickel plate your instruments in the best of manner and at shortest notice. For approximate costs of repair work, see page following index."

Electrical Apparatus.

ALTERNATING CURRENT TRANSFORMERS.



6312* Current Transformer, for use on 110 volt alternating current:

(a) for cautery only

\$30.00

(b) for cautery and light

25.00

This Transformer has been designed to supply the needs of physicians who demand a convenient and portable controller. It is contained in a polished mahogany carrying case, one 7.5 x 7.5 inches, the fixtures being mounted on a platform of polished hard rubber. The heat of the cautery knife is regulated by turning the handle knob of the circular controller. The index indicates the amount of the secondary coil exposed to the primary coil. With this adjustment, from the smallest to the largest knives made can be heated perfectly. The maximum output of this apparatus is 4 volts and 60 amperes.

6313 Current Transformer, same model as No. 6312, but having a maximum output of 4 volts and 100 amperes; designed to operate very heavy knives and the Downes' electro-thermic instruments

\$25.00

For Connecting Cords, Foot Switch and Plug, add \$3.50.

6314* Current Transformer, same model and strength as No. 6312, but with the addition of an ampere meter registering from 0 to 100 amperes; specially designed to operate the Downes' electro-thermic forceps and for extra heavy cautery knives; complete with cords and foot switch

\$5.00

6315 Cautery Cable, specially heavy, single section, 60 inches long

4.00

6316 Cautery Cable, specially heavy, two sections, 60 inches long

6.00

All instruments illustrated are designated by a *.

Electrical Apparatus.

DIRECT CURRENT TRANSFORMERS.



6320



6326



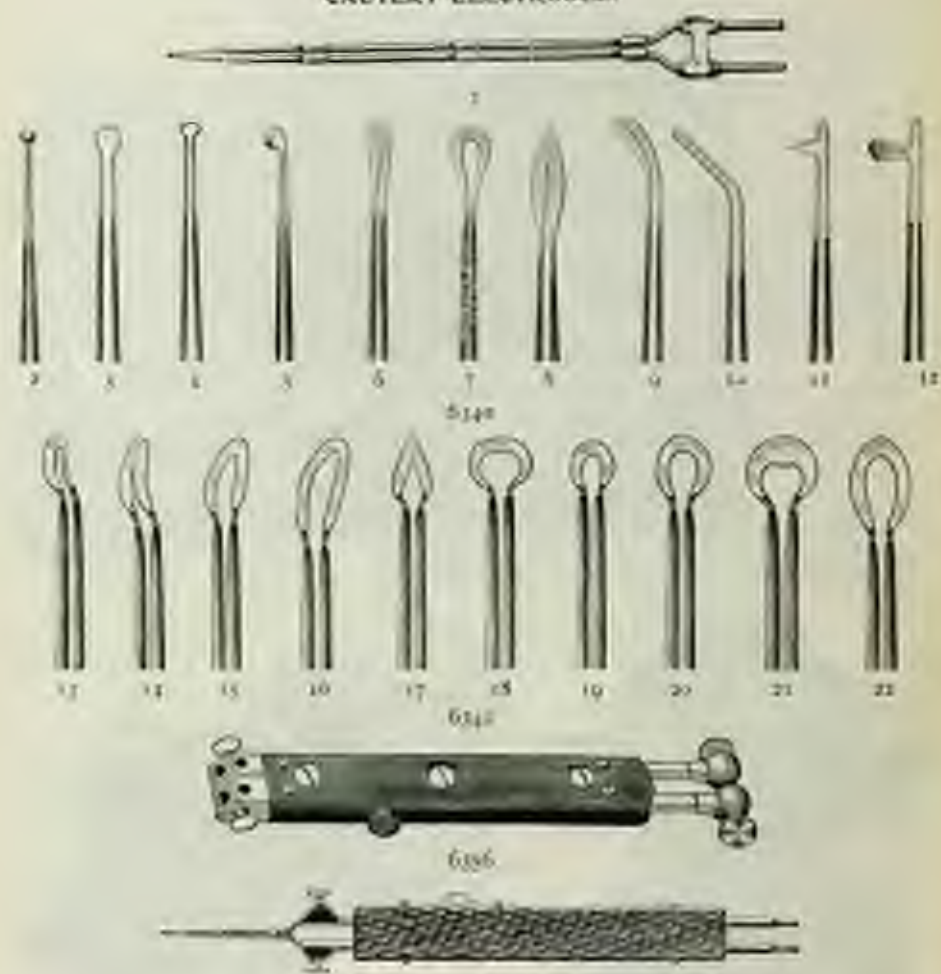
6327

- 6320.* Current Transformer, combined with a motor transformer in one case, for 110 volt direct current, without amperes meter. \$65.00
6321. Current Transformer, with amperes meter, combined with a motor transformer in one case, for 110 volt direct current. 100.00
- Foot switch and connecting cords with plug are included in the above.
- The above transformers are designed for operating very heavy caustery knives, and especially the Downs electro-thermic forceps.
- 6326.* Current Transformer, for 110 volt direct current. 35.00
- Designed for the use of the eye, ear, nose and throat specialists for operating caustery electrodes. (See page 426.)
- 6327.* Current Transformer with Pynchon's Ear Pump, for nasal and eye massage; general caustery and diagnostic lamp controller, wound and fitted for massage handle; for 110 volt direct current. 60.00
6331. "Victor" Ear Pump only. Same as attached to apparatus Fig. 6327. 30.00

All instruments illustrated are designated by a *

Electrical Apparatus.

CAUTERY ELECTRODES.



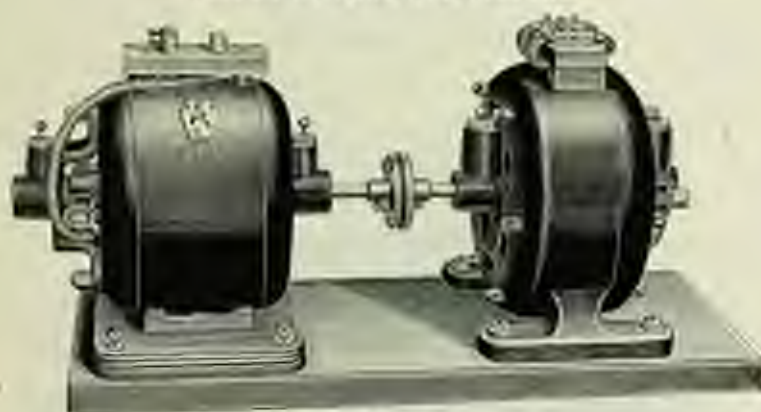
6340.*	Cautery Electrodes, nasal, Nos. 1 to 12, inclusive	each	\$1.00
6341.	" " laryngeal, with curved shanks, with points No. 6340; Nos. 1 to 12	each	1.00
6342.*	" " heavier and larger than the regular nasal points; Nos. 13 to 22, inclusive	each	1.25
6357.	" " for eye work, points like Fig. 6340; Nos. 1, 2, 4, 9 and 10	each	1.00
6356.*	" Handle, Seiler's Universal		4.25
6357.	" " with coarse attachment		8.50
6361.*	" " small and light, designed for eye work		5.00
6358.	" Cords, heavy	per pair	2.00
6359.	Platinum Suture Wire	per length of 20 inches	1.75
6360.	Universal Hand Piece, with extra long surgical shaft, sheath, wrist joint and arm support		15.00
6361.	Nasal Biers and Trephines	each	1.00

For illustrations of the Downes heavy cautery knives, tables, etc., see page 66.

All instruments illustrated are designated by a *.

Electrical Apparatus.

MOTOR DYNAMO AND MOTORS.



6362



6365



6366

6364.* "Keystone" Motor-Dynamo Set, for converting the alternating current into constant or direct current of any desired voltage . . . \$100 00

By the employment of this device any of the apparatus which are used on the 110-volt direct current can be operated from an alternating electric light current. In ordering, state the voltage and alternations of the current to which the Motor-Dynamo is to be attached.

6365.* "Victor" Power Motor, for 110-volt direct current.

1-12 H. P.	\$18 00
34 H. P.	22 50
1-6 H. P.	27 00
34 H. P.	41 00

6366.* Speed Controller,

for 1-12 or 34 H. P. motors	5 50
for 1-6 H. P. motor	8 00
for 34 H. P. motor	9 00

6368. Power Motor, variable speed, for the alternating current of 110 volts and 60 cycles 34 H. P., \$50 00; 1-3 H. P., 60 00

This is the only alternating current motor we know of in which the speed can be controlled, and which does not depend on separate speed-controlling devices.

Electrical Apparatus.

X-RAY APPARATUS.



6440, 6442, 6443

**Complete Saelck Roentgen Apparatus for Direct Current, with Switch Table,
Tube Stand and Lead Glass Shield.**

6440. "Saelck" Roentgen Apparatus for direct current of either 110 or 220 volts, with switch table (tube stand and lead glass shield not included):
- | | |
|-------------------------|----------|
| One Kilowatt capacity | \$668.00 |
| Two Kilowatt capacity | 785.00 |
| Three Kilowatt capacity | 990.00 |
6441. "Saelck" Roentgen Apparatus for alternating current, with switch table:
- | | | |
|-----------------------|-----------------------------------|--------|
| One Kilowatt capacity | polyphase, \$720.00; single phase | 785.00 |
| Two Kilowatt capacity | polyphase, \$820.00; single phase | 962.00 |

The "Saelck" Apparatus does not use any interrupter, and is entirely free from inductive discharge.

6442. Roentgen Tube Stand, with 7-inch lead glass shield 21.30
6443. Lead Glass Shield only - to hold 7-inch tube, \$6.30; to hold 6-inch tube 3.90

We solicit your inquiries regarding the very latest and most approved forms of X-Ray Apparatus, High-Frequency Apparatus and Accessories.

Prices subject to change.

*All articles illustrated are designated by a *.*

Electrical Apparatus.

X-RAY APPARATUS.



6444

- 6444.* Radiographic Table with adjustable lead for head, complete, with improved Mackenzie Position localizer, lead glass shield and three compression diaphragms. \$89.00
6445. Lead Screen, 15-inch bend, 22 x 54 inches, with glass top. 20.00
6446. "Oudin" Resonator for high-frequency work; on mahogany cabinet, with resonator and vacuum electrodes. 60.00
6447. Fluoroscope, with removable screen,
 5 x 7 in. \$12.00; 6 x 8 in. \$16.00; 7 x 9 in. \$20.00; 8 x 10 in. 25.00
6448. X-Ray Tube, very best standard make, heavy copper target, 6-inch bulb, with plain platinum lining, \$22.50; with iridium platinum lining 32.00

We solicit your inquiries regarding the very latest and most approved forms of X-Ray Apparatus, High-Frequency Apparatus and Accessories.
 Prices subject to change.

*All articles illustrated are designated by a *.*

Electrical Apparatus.

HIGH-FREQUENCY AND X-RAY.



6490

- 6490* "Keystone" High-Frequency and X-Ray Coil Outfit No. 1, including set of Snaw electrodes, pair of sponge electrodes, two pairs of conducting cords, attachment cord and plug;
 for either 110 or 220-volt alternating current \$175 00
 for either 110 or 220-volt direct current 250 00

The outfit is equipped with the most powerful and most efficient coil for radiographic, fluoroscopic and general therapeutic work, offering X-Ray, high-frequency, d'Arsonval, ultra-violet, auto-conduction, auto-condensation and all high and low potential current effects. Noiseless in operation. Its control and applications are easily mastered.

For X-Ray work the coil is unequalled, as it operates without strain any tube from the smallest to the largest, the rays remaining uniform at all times.

For high-frequency work it has adjustments for high, medium and low-frequency currents; they yield low enough to produce powerful muscular contractions, or high enough to fuse a steel wire or light an incandescent lamp through the body without sensation.

The d'Arsonval and ultra-violet ray currents are of large volume.

The cabinet containing the outfit is of highly polished quartered oak, with three drawers for instruments and a large closet for X-Ray tubes. All brass parts are mounted on polished rubber plate and marked plainly as to their use.

*All articles illustrated are designated by a *.*

Electrical Apparatus.

HIGH-FREQUENCY AND X-RAY.



6452



6454

- 6452* "Keystone" Portable High-Frequency and X-Ray Coil Apparatus No. 2, including set of Snow tubes and X-Ray tube holder; for 110-volt alternating current \$100.00
for 220-volt alternating current 120.00

A powerful double-pole apparatus for all classes of radiographic and general treatment work. The coil is noiseless in operation. Has selective switch for cutting out the primary winding of the Tesla coils, thereby changing the frequency of the current from low, medium or high frequencies. Not made for the direct current.

- 6454* "Keystone" Portable High-Frequency and X-Ray Coil Apparatus No. 3, including set of Snow tubes and X-Ray tube holder; for both alternating and direct 110-volt currents 25.00

A double-pole apparatus designed especially for the general practitioner. Powerful enough to do any ordinary radiographic or treatment work. Weight, 25 pounds.

- 6456* Electric Light Bath and Heater 25.00

For both direct and alternating currents (specify voltage); instantly controlled and regulated.

The apparatus is of such shape that light and heat can be applied around the joints or limbs, or around any part of the body, or up and down the spine, and without affecting adjacent parts; this is especially desirable in treatment of the shoulder.

It is very efficient in the treatment of a variety of skin diseases, stiff joints, rheumatism, neuritis, gout and hernia.

As a heating apparatus it can be used with a temperature as high as 500° F.; as an electric light bath with a candle power as high as 320.



6456

Electrical Apparatus.

STATIC MACHINES.



6438

6438^a "Nelson" Static Machine with 16 plates, \$420.00; with 22 plates \$475.00.
Including X-ray outfit electrodes.
Freight charges extra.

The case is of selected quarter-sawn oak, constructed by the best skilled cabinetmakers. It is ornamented by metal castings and lined with French beveled plate glass. The legs are square, to preserve rigidity.

We solicit your inquiries regarding Static Machines or any kind of electrical apparatus, and shall be glad to furnish full particulars of the latest and most practical devices.

All instruments illustrated are designed by A. N.

Electrical Apparatus.



6500



6502

- 6500* Leacodescent Therapeutic Lamp Outfit "E Special," for both direct and alternating (110-volt currents), comprising 500 c. p. lamp with metal hood, set of three screens (violet, amber, red) with holder, crane, rheostat, cable and counter-balance weight; complete, as illustrated.

- 6502* Leacodescent Therapeutic Lamp Outfit "K Special," comprising 500 c. p. lamp with metal hood, crane, cable and counter-balance weight (no screen nor rheostat).

\$125.00

100.00

Extra Parts

- Set of three screens (violet, amber, red) with holder \$25.00
 Rheostat 50.00
 500 c. p. Lamp (globe) alone 50.00
 500 c. p. Lamp (globe) in exchange for the leading-in wires of the burn-out lamp (globe) 15.00

- 6502* Leacodescent Therapeutic Lamp Outfit "K Special," comprising 400 c. p. lamp with hood, crane, cable and counter-balance weight.

85.00

- 400 c. p. Lamp (globe) alone \$50.00
 400 c. p. Lamp (globe) in exchange for the leading-in wires of the burn-out lamp (globe) 35.00

- 6503* Therapeutic Hand Lamp, for both direct and alternating currents. Outfit comprises a 50 c. p. lamp with nickel-plated reflector, set of three screens (violet, amber, red), cable and connecting plug; complete, as now carrying case.

10.00



6504

- 6504* Electric Light Sun Bath

Cabinet, with 20 lamps 280.00

Octagonal, highly polished quartered oak, double paneled, 48 inches diameter, 48 inches high; large enough to contain the patient in a comfortable sitting position.

The floor and sides are lined with extra heavy French plate mirrors. The lamps are fitted through the middle line of each mirror, so as to secure the greatest amount of reflected light rays. They are wired in sections, so that any number of lights may be conveniently turned on or off for treating the whole body or any part of the body.

Electrical Apparatus.

HEAD LAMPS, CONTROLLERS, BELTS.



6506



6507



6507



6508



6509



6510

- 6506.* Electric Head Lamp and Band, Lentz's latest, with adjustable focusing tube and condensing lens. \$10.00
Can be operated from battery current or from electric light current through a current controller.
- 6507.* Electric Head Lamp and Band, Koser's, with 16 c. p. lamp, for direct use on the lighting current. 7.50
When ordering, specify the kind and voltage of the street current. Extra lamps, 60 cents each.
- 6508.* Electric Head Lamp, DeZeng's, without band. 13.90
- 6509.* Current Controller, DeZeng's, for both direct and alternating electric light currents, for all kinds of miniature lamps; fits any lamp socket. 9.00
- 6510.* Current Controller, Wappler's, for both direct and alternating electric light currents, for all kinds of miniature lamps; fits any lamp socket. 9.00
- 6530.* Johns' Electro-Therm, Electric Heating Pad for 5 to 125-volt current, size 12 x 15 inches, 1/4 inch thick, with regulating switch, plug and 15 feet of conducting cord. No. 1 or No. 2. 6.50
No. 1. For ordinary domestic use, to replace hot water bottles, etc.; felt covered with washable muslin slip cover; weight, 11 ounces.
No. 2. Specially for Moist Heat; rubber cloth cover; weight about 1 lb.
- 6530.* Electric Belt, Spalding's. . . 6 Cells, \$6.00; 12 Cells, \$8.00; 15 Cells, \$10.00
Suspensory attachment, \$2.00 extra. State circumference of waist.

Electrical Apparatus. VIBRATORS.



6542

6546

6542* "Shelton" Portable Vibrator No. 1, for use on either direct or alternating current; including four applicators, complete in velvet-lined carrying case. \$85.00

6544. "Shelton" Portable Vibrator No. 2, with alternating current motor, ohms resistance and speed controller; for use on both direct and alternating currents; including four applicators, complete in velvet-lined carrying case. 48.50

The "Shelton" is one of the original small but powerful electrical hand vibrators. The motor is well built, compact and efficient. Quickly adjusted from a slight almost imperceptible shake to one giving deep penetration or any number of gradations between these points.

6545* "Keystone" Vibrator, for 110-volt direct current; including six applicators \$60.00

"Keystone" Vibrator, for 110-volt, 50 cycles alternating current; including six applicators. 70.00

The "Keystone" possesses the distinct superiority that all the power is transmitted to the patient instead of partly to the operator's hand. It is readily adjusted for the complete variety of strokes. A rheostat permits the selection of six different speeds. The motor is powerful and will not slow down even under heavy pressure. The outfit is mounted on an iron table, supported by a neatly ornamented base and pedestal, and can be lowered and raised at will.

Correspondence invited.

Electrical Apparatus.

VIBRATORS.



6548



6550

- 6548.* *Johansen's Auto-Vibrator* (patented), not electrical, including two applicators

\$7.50

In this instrument we recommend a first-class *hand-power* massage vibrator. It is compact, the mechanism being concealed within the apparatus, and measuring only 11 inches in length. Easily adjustable and powerful enough to penetrate to deep-seated tissues with a wide range down to a slight tremulous motion. Gives both rubbing and tapping vibrations or a combination of the two. Other applicators of various kinds (list on application) from \$1.00 to \$1.50 each.

- 6550.* *"Barker" Portable Universal Vibrator*, for both 110-volt direct and alternating currents, including four applicators, in a velvet-lined carrying case

25.00

A light but powerful machine, which meets the demand for the average work which can be accomplished with a portable apparatus.

- 6552.* *"Barker" General Massage Vibrator*, for 110-volt direct current and including several applicators

35.00

- 6554.* *"Barker" General Massage Vibrator*, for 110-volt alternating current and including several applicators

65.00

Mounted on pedestal of quartered oak, finely finished. The motor is encased in a wooden box to match the pedestal, and can be detached to be carried separately. If the case is not desired, deduct \$5.00 from the price of either outfit.

Correspondence invited.

SECTION XVII.

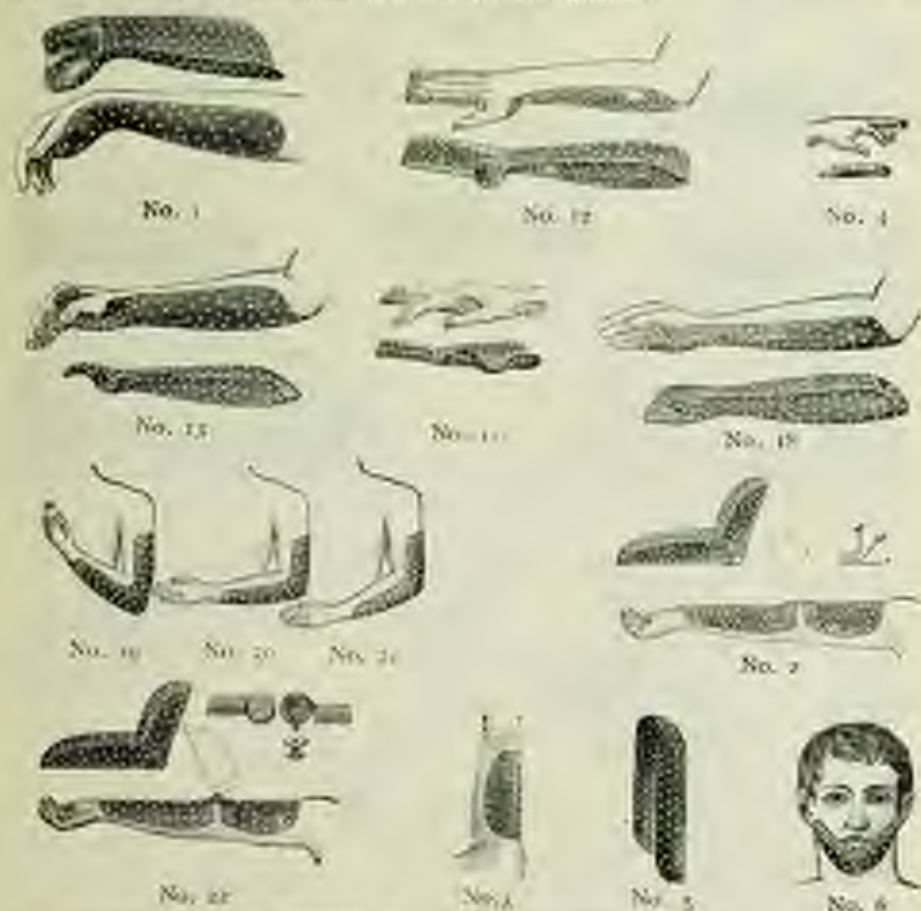
Splints.

PERFORATED METALLIC SPLINTS.

Flexible, Nickel-plated. Conforms to every size and condition of limb. Very Light and Indestructible.

The copper used in the manufacture of these splints being less than one-eighth of an inch in thickness, makes them very light and readily conformable by bending to suit the peculiarities of any limb, and yet the splints when applied are as firm as the heaviest wooden appliances.

All of "Levis" Splints are made in at least two sizes, "Adults" and "Children's," and a number of these are also made in a smaller size, "Infants."



Levis' Perforated Metallic Splints		Adult	Child	Infant
1 st	Radius Splint right or left	\$1.00	\$1.00	\$0.75
12 th	Combined Forearm Splint " " "	1.00	1.00	.....
13 th	Improved Hand's " " "	1.00	1.00	.....
4 th	Phalanges Splint for fractures of fingers or toes	.15	.15	.25
11 th	Metacarpal Splint (price does not include any Phalanges Splints) right or left	.75	.75	.....
15 th	Ulna or Forearm Splint	1.00	1.00	.....
19 th	Posterior Elbow Splint acute angle	1.00	1.00	.....
20 th	" " " right angle	1.00	1.00	.....
21 st	" " " obtuse angle	1.00	1.00	.....
2 nd	Adjustable Angular Elbow Splint	1.50	1.50	1.00
22 nd	Humerus Splint " " "	1.50	1.50	.....
3 rd	Clavicle	.50	.50	.35
5 th	Maxilla	.75	.75	.50
6 th		.75	.75	.50

Splints.

PERFORATED METALLIC SPLINTS.



No.	Levis' Perforated Metallic Splints.	Adult	Child	Infant
7*	Forearm Splint	.30	.50	.35
8*	Posterior Patella Splint	1.00	1.00	
13*	Anterior Patella Splint	1.00	1.00	.75
9*	Proximal Tibia and Fibula Splint	1.00	1.00	
14*	Anterior Tibia and Fibula Splint	1.00	1.00	.75
10*	Club Foot Splint, two uses, suitable for infant 3 years to 2 years of age			
16*	External Ankle Splint right or left	1.00	1.00	.75
17*	Internal Ankle Splint right or left	1.00	1.00	
23*	Double Incline Plane Splint; can lengthen or shorten	5.00	5.00	
24*	Combined Extension and Suspension Splint; can lengthen or shorten	5.00	5.00	
25	Combined Leg and Foot Splint (similar leg and foot shown on No. 24 splint)	2.25		

LEWIS' SET OF 21 PIECES; for Adults and Children.

	Number	1	2	3	4	5	6	7	8	9
Adults		2	1	1	2	1	1	1	1	1
Children		2	1	1	1	1	1	1	1	1
Infants		2	1	1	1	1	1	1	1	1

In handsome cherry case, 17 x 6 x 5 inches; weight, 9 pounds. Price, complete, \$25.00.

LEWIS' SET OF 41 PIECES; for Adults, Children and Infants.

	Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Adults		2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Children		2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Infants		2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

In cherry case, 18 x 6 x 5 inches; weight, 12 pounds. Price, complete, \$25.00.

A FULL AND COMPLETE SET OF SEVENTY-FIVE PIECES.

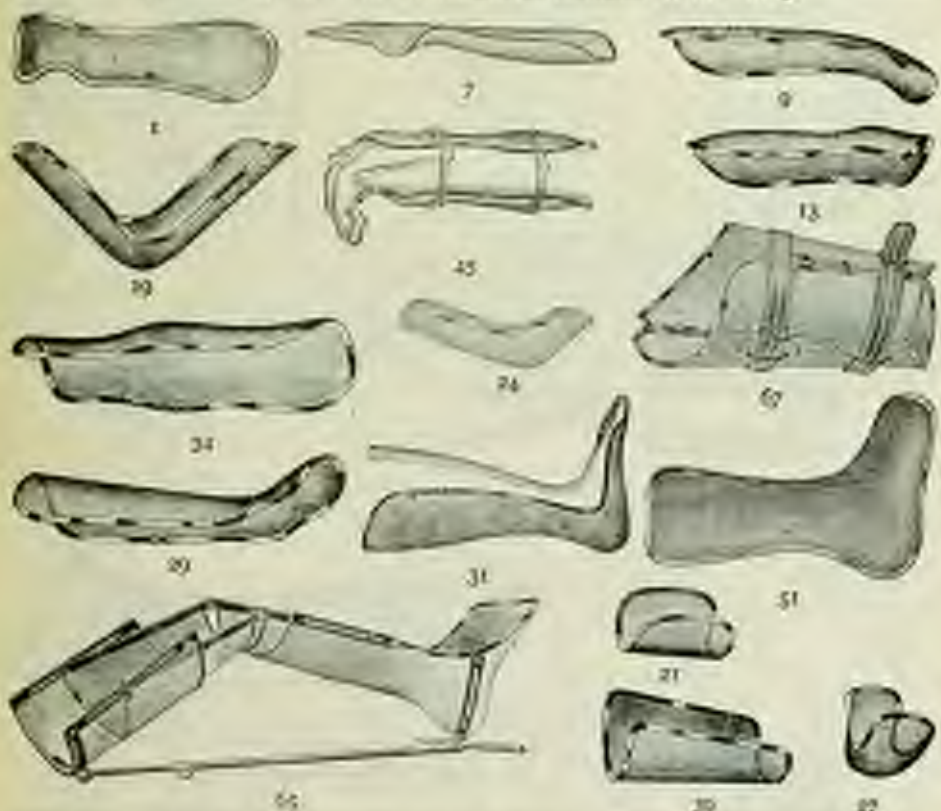
No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Adults	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Children	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Infants	2	1	1	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

In handsome cherry case, 18 x 11 x 13 inches; weight, 42 pounds. Price \$65.00.

Splints.

DE PUY'S ADJUSTABLE WIRE SPLINTS.

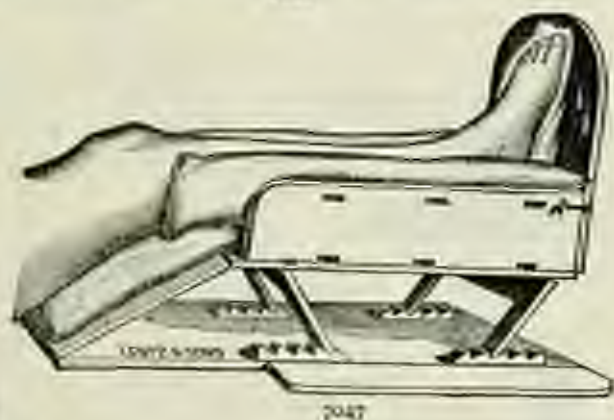
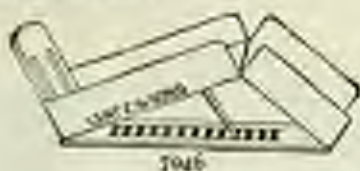
Made of brass wire cloth with the edges soldered and protected by a semi-pliant metallic covering. Will not rust nor oxidize. The nature of the material gives all the ventilation possible or desired, and in the event of a wound permits of its being drained through the meshes without the removal of the splint, and if there be any suppuration the secretions can work off. The surface of the exterior is rough, hence a bandage can never slip. These splints offer but insubstantial resistance to the X-ray.



No.	De Puy's Adjustable Wire Splints.	Adult	Child	Infant
1*	Radius Splint right or left	\$1.00	\$0.75	\$0.25
2*	Forearm and Hand Splint	1.00	.75	—
9*	Posterior Forearm Splint	1.00	.75	—
13*	Ulna Splint	1.00	.75	—
45*	Colles' Fracture Splint, improved	2.50	2.50	1.00
15*	Posterior Elbow Splint	1.00	.75	.50
21*	Humerus Splint . . . . .	.50	.35	.15
22*	Clavicle Splint . . . . .	.75	.50	.25
47*	Haines' Clavicle Splint	2.00	2.00	1.00
27*	Maxilla Splint . . . . .	.50	.35	.15
67*	"Special" Femur Splint	2.00	1.50	1.00
34*	Anterior Patella Splint	1.00	.75	—
36*	Posterior Patella Splint	1.00	.75	.25
29*	Anterior Tibia and Fibula Splint	1.00	.75	.50
31*	Posterior Tibia and Fibula Splint	1.25	1.00	.50
51*	External Ankle Splint right or left	1.00	.75	.50
52*	Internal Ankle Splint	1.00	.75	.50
65*	DePuy's Combination Splint	10.00	20.00	—
39*	Utility Splint . . . . .	.75	.50	.25

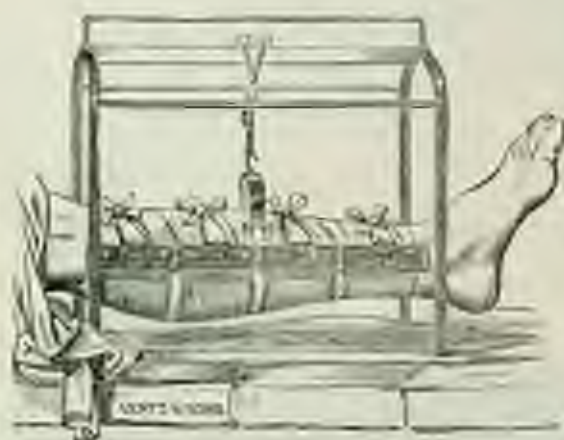
Discount on sets of 21, 27, 35 or 65 pieces. Lists on application.

Fracture Apparatus.

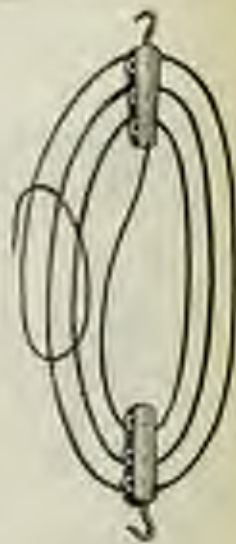


2045.*	Fracture Box, hinged sides, small, \$2.50; medium and large.	each	\$3.00
2046.*	" " " double inclined plane, two sizes	"	5.50
2047.*	" " " elevated, Pett's	"	7.50
2048.*	Patella Splint, Hamilton's, two sizes	"	4.00
2049.*	" " Agnew's	"	4.00
2050.*	Clayton " Lewis', " child and adult	"	5.50
2051.*	" " Fox's	"	3.75
2052.*	Frame for supporting the weight of the bed covers, for flesh, 18 x 34 in.	"	7.75
2053.*	" " " " " body, 24 x 36 in.	"	8.00

Fracture Apparatus.



7060



7060



7061



7062

From above



If from the side (slide removed.)

7063



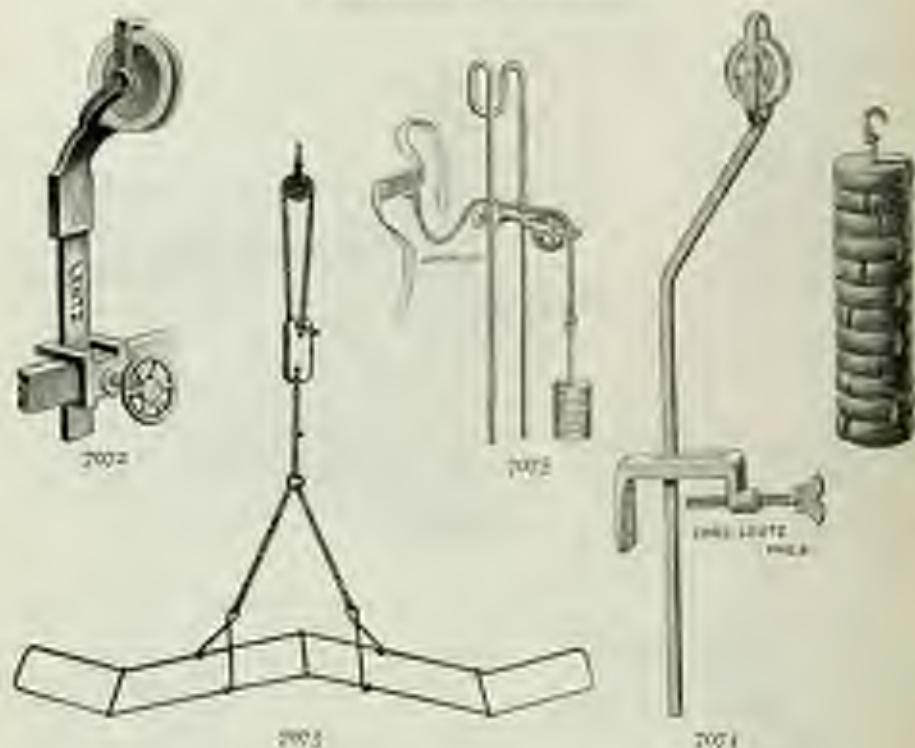
7064



7065

- 7060.* Compound Pulley and Cord for Dislocations. per pair \$1 00
 7061.* Salter's Fracture Cradle or Swing. 15 00
 For supporting a fractured limb from the pressure of the bed-clothes, and to permit change of position without the risk of displacing the bones. It is a frame resting upon the bed and having on its central bar a small railway, upon which travel two pulleys, passing over by a chain the wounded limb (placed in such position as the surgeon may select).
 7062.* Support for applying body bandages, wood base with this metal plate. \$1 75
 7063.* His Support, metallic, McIlmurray's telescopic. 5 00
 7064.* Splint, Packard's, for knee reduction. 4 50
 7065.* " Ashurst's. 5 00
 7066.* " Ashurst's of wire, for excision of ankle. 3 50
 7067.* " Bismarck's Interrupted, for excision of wrist or elbow. each 3 00
 7068.* His Apparatus for the reduction of shoulder and hip dislocations. 15 00

Fracture Apparatus.



7001.* Suspension Apparatus, Hodge's, complete with cords and pulleys, adjustable \$8 00

Consists of a wire frame of lateral bars held in position by over-bows of iron. The lower portion is formed of gauze strips, or wide bandages. Extension may be secured by adhesive plaster. The whole may be suspended from the ceiling, wall, or other convenient place.

7003.* Anterior Splint and Suspending Apparatus, Smith's, for fractures of the leg and thigh, complete with cords and pulley \$3 00

7004.* Extension Apparatus, Lewis', to attach to wooden bedstead; with set of weights, in wood box 5 00

Provided with adjustable clamp for fastening and adjusting the rod in the required elevation. The amount of weight extension is effected by a series of one-pound weights suspended on a rod with hook. The weights will not slip off, but are added or removed near the top, where the rod is flattened to fit the groove of the weights.

7005.* Extension Apparatus, Frazer's, to attach to iron bedstead 1 25

Complete with set of weights, block and cord, in wood box 4 00

7006.* Extension Apparatus, Lentz's, to attach to metal bedstead 1 50

Complete with set of weights, block and cord in wood box 4 25

7007.* Sled Bags, 18 in., 75c; 24 in., \$1 00; 32 in., \$1 50; 48 in., \$2 00; 60 in., 2 50

Fracture Apparatus.

AMBULATORY PNEUMATIC SPLINT

For the Treatment of Fractures of the Hip, Thigh, Patella, Leg and Ankle, and of Cases of Non-Union, Knee-Joint or Hip-Joint Disease.

Adjustable to Right or Left Limb.



Showing patient in street costume walking with Ambulatory Pneumatic Splint with comfort and perfect safety.



7080

Showing application of splint with posterior padded cast-board splint for fractures of the leg, knee and ankle.

Price, \$40.

The Ambulatory Pneumatic Splint is a boon to patients because it permits them to be "on their feet" with perfect safety long before this would be possible without its use.

The physician also derives the greatest satisfaction from employing this splint in his practice, because he feels assured that its use will result in bony union without shortening or deformity.

With the employment of this splint the reduction of fractures becomes comparatively easy, but also accurate and reliable, and the broken bones are sure to be retained in their proper position.

It is employed with great success in all cases where extension, counter-extension and immobilization are desired while the patient is in the recumbent (bed) or ambulatory (walking) position.

It is an open dressing, permitting of frequent inspection, bathing, dressing to injuries of the soft tissues, ventilation, massage and of early, painless use of the limb with perfect safety.

It permits the application, if desired, and supporting of an apparatus splint for leg or thigh fracture, for which purpose buckling straps are furnished for adhesive strap traction—in connection with the pneumatic cushions on and between the bony prominences of the ankle and foot and tuberosity of the ischium.

It is made and finished in a first-class manner, of the very best quality of light seamless steel tubes, with adjustable screws, and cushions of webbing and flannel containing pure rubber air cushions with adjustable valves. It will wear for years, and being washable, may be applied any number of times for the various purposes for which it is used.

DIRECTIONS FOR ORDERING.

State: Nature of fracture? Length of limb from sole of foot to osseum? Circumference of thigh at pelvis? Right or left limb? Shoe for male or female? If for fracture of upper third or neck of femur or hip-joint disease, also state: Circumference of hip? Around chest? Length from sole of foot to arm-pit?

With this information we will send splint adjusted, ready to comfortably fit patient, with all parts fully tagged and application notes enclosed.

PRICES.

7080.* Ambulatory Pneumatic Splint, with shoe, title key and pump	\$40 00
7081.* Ambulatory Pneumatic Splint, with hip-joint immobilizing attachment, and with shoe, title key and pump	50 00
Compound Key (for lengthening or shortening four screws of splint together)	5 00
Case for complete outfit	5 00



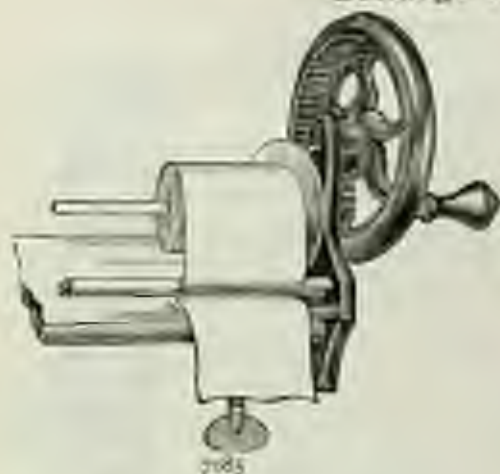
7081

Showing application of splint with hip joint immobilizing attachment, padded belt for fractures of the femur, neck of the femur, or hip joint fracture. Also showing adhesive strap traction with posterior padded cast-board splint and foot-rest feature which permits patient when in recumbent position to recline at an angle or to sit down, as may be directed by the surgeon.

Price, \$50.

Note.—The splint is made in two sizes, adult and child. It may be applied to either limb and adjusted to patients of various sizes.

Bandage Rollers.



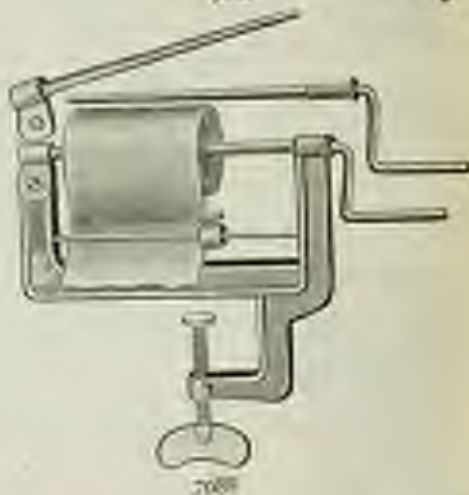
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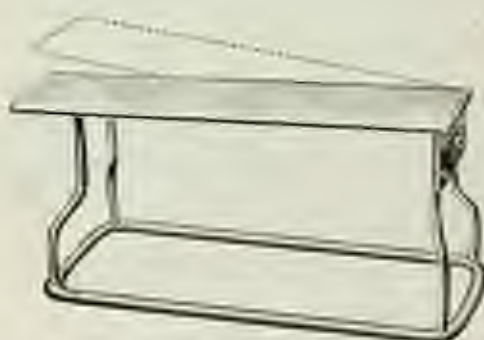
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7087



7088



7090



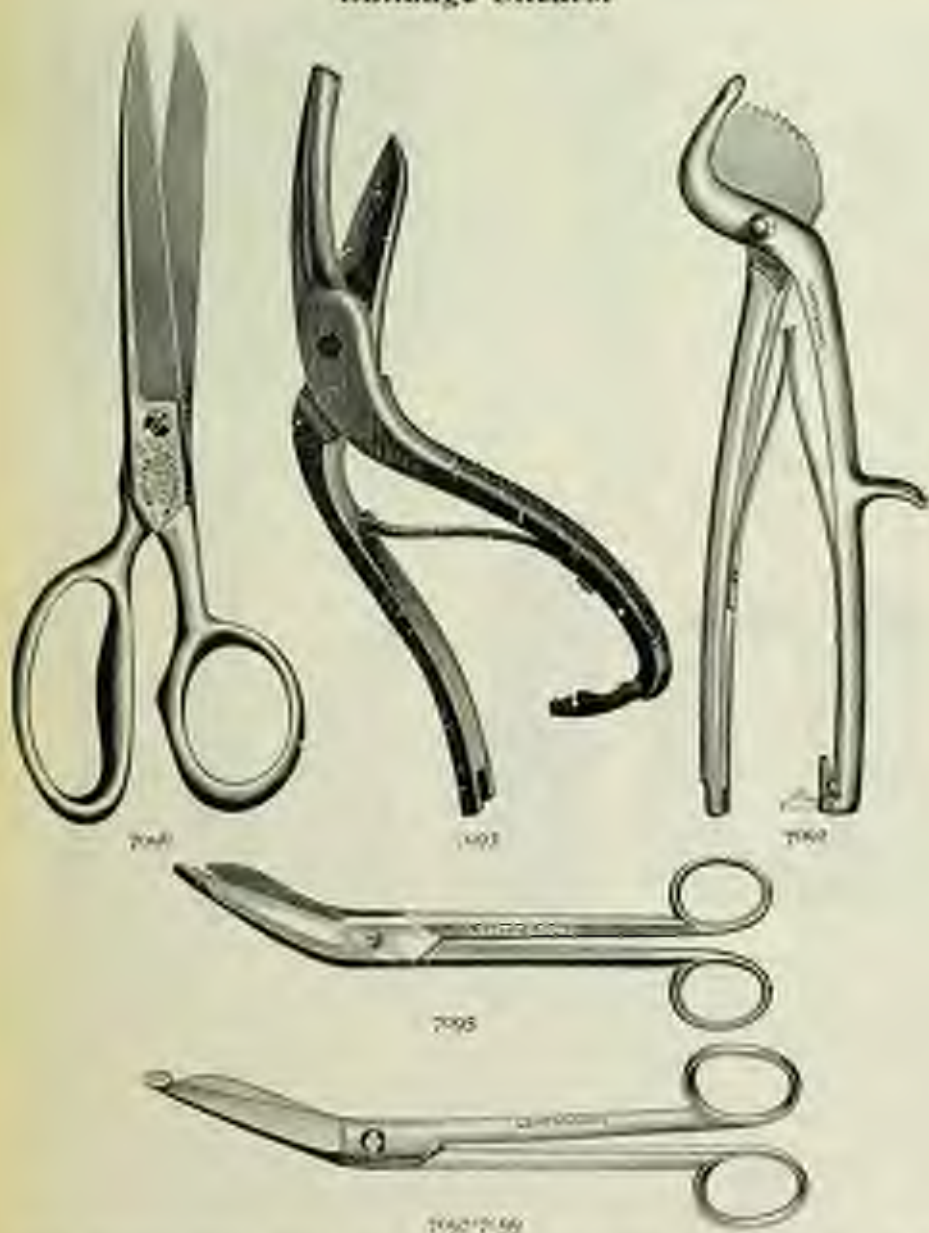
7083

7083.*	Bandage Roller, plain, adjustable to any table	\$5.50
7085.*	" " Crocker's	5.75
7086.*	" " German pattern, all metal, nickel plated	4.00
7087.*	" " Babst's	1.75
7088.*	" " Fulton's	1.50
7090.*	Support for applying body or leg bandages, metal, nickel plated	6.00

(See also page 506.)

All articles illustrated are designated by a *.

Bandage Shears.



7040*	Bandage Shears	Roof's, for removing plaster of Paris bandages	\$5.00
7093*	"	Henry's	4.00
7094*	"	Wish's	4.00
7095*	"	Esmarch's heavy, aseptic lock, 9 in.	2.00
7062*	"	large and strong, straight, 14 in., blunt ends	1.00
7067*	"	Lambert's, 11 in., with aseptic or aseptic lock	1.00
7068*	"	" 7 1/4 " " " " " " "	1.00
7069*	"	" 8 " " " " " " "	1.00

For other Bandage Scissors and Shears see page 66.

Bandage Saws and Splint Material.



7105.*	Bandage Knife, Allis'		\$1.75
7106.*	" " Johns Hopkins Hospital pattern		1.25
7103.*	" " Boston City		1.75
7103.*	Plaster Claw, Willard's, for removing casts	each	2.25
7107.*	Bandage Saw, Engel's, for removing plaster of Paris bandages		1.25
7106.*	" " Hunter's		1.75
7109.	" " Pearson's		5.00
7108.*	Bandage Knife and Wedge, Esmerich's		1.25
7108.*	" " Merrill's		2.00
7109.*	Splint Material, felt in sheet.	per square foot, 90c; per square yard	2.30
To cast a splint from the flat sheet—First cut out the pattern, then score, then mould over the part or figure of the part to which it is ultimately to be applied.			
7110.	Splint Material, Bessler's Board, 22 x 27 in.	per sheet	30
7111.	" " Yucca Wood, very elastic, light and porous, 16 x 18 in., 1/4 in. thick	per sheet	40
7112.	" " " " 16 x 18 in., 1/4 in. thick	per sheet	35
7113.*	" " " " 16 x 18 in., 1/4 in. thick	per sheet	60
7114.*	Plaster of Paris Bandages, each in box, 2 in. x 5 yds., each, 20c; dozen, \$2.00; 2 1/2 in. x 5 yds., each, 25c; dozen, \$2.50; 3 in. x 5 yds., each, 25c; dozen		2.45

For other Bandages see page 10.

All articles illustrated are designated by a *.

Crutches. 11



1. Crutches, strong maple, split, with polished cherry wood arm pieces and handles \$ 1 50
 2. " rock maple, with polished hard wood round top arm pieces and plain ferrules 2 25
 3. " rock maple, with padded leather covered arm pieces and plain ferrules. 1 75
 4. " rock maple, with polished cherry wood round arm pieces, nickel plated metal sockets and rubber bottoms 4 00
 5. " rock maple, with padded leather covered arm pieces, nickel plated metal sockets and rubber bottoms 4 20
 6. " same as No. 5, but with black or ebonized finish 3 50
 7. " rock maple, black or ebony finish, with spring arm pieces of genuine Russia leather, nickel plated metal sockets and rubber bottoms 5 00
 8. " same wood, with spring arm pieces of genuine Russia leather, nickel plated metal sockets and rubber bottoms 9 00
- When ordering Crutches give distance from arm-pit to floor, when in a full erect position, with arms down at side.
10. Rubber Bottoms, for Nos. 1, 2 and 3 Crutches, four sizes; per pair, No. 17, 96c.; No. 18, 126c.; No. 19, 200c.; No. 20 25
 11. " " for Nos. 4, 5 and 6 Crutches; three sizes, per pair, small, 150c.; medium, 200c.; large 30
 12. " " for Nos. 7 and 8 Crutches, three sizes, per pair, small, 150c.; medium, 200c.; large 30
 13. Metal Sockets, screw ends, same as on Crutches Nos. 4, 5 and 6; three sizes; No. 21 bottoms are used; per pair, without rubber bottoms 1 00
 14. " " Whittemore pattern, same as on Crutches Nos. 7 and 8; No. 22 bottoms are used; per pair 1 25

Section XVIII.

Trusses, Abdominal Supporters, Elastic Hosiery, Etc.

TREATMENT OF HERNIA WITH MECHANICAL APPLIANCES.

We give our especial attention to the mechanical treatment of Hernia or Rupture, and having at our command a large and most complete stock, combined with daily practical experience during many years, we are in a position to successfully treat at our Application Department the most difficult and complicated cases.

Mail orders are filled promptly, generally immediately on receipt of them, and they have our utmost care. Any cases which the physician may describe to us, will be studied carefully and the proper appliance selected.

The prices of Trusses, Abdominal Supporters, etc., given on the following pages, are the **PRICES TO PATIENTS**. From these prices we allow physicians discounts as follows :

I Trusses	pages 515 to 518,	50% ; if applied by us 25%.
□ Abdominal Supporters	" 520 to 524,	25% ; " " " 20%.
□ Elastic Hosiery	" 527,	25% ; " " " 20%.
□ Shoulder Braces	" 528 to 539,	25% ; " " " 20%.
□ Suspensories	" 541,	25% ; " " " 20%.

When we are required to take measurements or to fit any appliance at patient's residence or at hospital, we will make a reasonable additional charge to compensate us for time and expense.



View of Third Floor showing six Filing Rooms



View of Fourth Floor. Electrical Apparatus and Furniture.

Trusses for Hernia.

With an experience in the manufacture and application of trusses which has extended over a period of many years, and aided by the practical advice of many eminent surgeons with whom we have been brought into contact in the treatment of complicated cases of Hernia, we are enabled to adapt apparatus successfully to every form of this affliction. Our patrons may be assured that we will spare neither labor nor expense to produce appliances that will meet their requirements and to maintain our reputation for superiority of material, excellence of workmanship and correctness of shape in this line of goods.

DIRECTIONS FOR FITTING AND SHAPING.



Place the patient in a reclining position, and reduce the Hernia; this will show you the exact size and location of hernial ring. But if in doubt as to size, carefully plug the hernial ring, using the tips of one or more fingers, as may be found necessary, then let the patient rise and test the accuracy of your judgment by coughing, or otherwise putting pressure on the bowels. The amount of pressure used and size of plug found necessary, will guide in selecting strength of spring and size of pad required; the location of the Hernia indicating the style of truss necessary. Make sure of these points; then, if form is irregular in shape, see that spring is adjusted properly, as shown above, using all fingers, the *thumbo* doing the bending, while the fingers hold and brace the spring and spread the strain; thus lessening chances of breaking in shaping. Never give the spring a sharp bend, or force shape too rapidly, but humor carefully.

Our springs are made of such shapes as a long experience has shown us to be suited to most cases, but the human form varies so in shape, that to fit a truss properly and give perfect satisfaction, it will be found necessary in many cases to slightly reshape as above directed.

DIRECTIONS FOR ORDERING—READ CAREFULLY.

In ordering trusses, observe the following directions:

State whether hard rubber or leather trusses are wanted.

State whether for *Inguinal, Scrotal, Femoral or Umbilical Hernia*, whether right or left, or double, and the circumference of the body, one to two inches below the tips of the hips, avoiding the fullness of the abdomen; state pressure required, shape of form, size of Hernia and general appearance.

For an *Umbilical Hernia*, the circumference of the body at line of rupture, size of rupture and the pressure required.

Particular attention should always be paid to giving an accurate description, as to size of Hernia, whether reducible or otherwise, general appearance, and peculiarities. Length of time ruptured, sex, age, weight, and occupation, when mentioned, better enable us to successfully meet requirements.

Regular sizes of Adults' Trusses are from 30 to 42 inches; Youths' from 22 to 32 inches, and Children's from 12 to 22 inches.

Special Note.—Fitting and adjusting special cases given careful attention at our private fitting rooms by skilled male and female attendants.

For Terms and Particulars, see page 514.

Trusses for Hernia.

HOOD'S ORIGINAL AND GENUINE PATTERN TRUSS, ADULT'S.

During our experience in applying trusses, we have seldom met a case of Hernia which could not be relieved by the Original and Genuine "Hood" Pattern Truss. The practical knowledge obtained in fitting trusses daily enables us to manufacture these trusses of the correct pattern; this, together with the correct shapes and bearings of our pads and springs, ensures appliances that are really fitted with the certainty of giving relief and comfort. No motion, position or effort will be found to remove them from place, when properly applied to the body. Our Hood's Trusses are made of the finest materials obtainable, and are far superior to any other make of this kind ever offered.

When used as a single truss, a thin flat pad or so-called sympathetic pad is applied to the unaffected side to prevent a hernia on the unaffected side. The pads can be placed in any required position, and accurately adjusted to hold the inguine.

Hood's Truss Applied.



Hood's Original and Genuine Pattern Truss for Single or Double Inguinal Hernia

7300	Hood's Truss, single, soft leather covered, with kid or hard rubber pads	\$11.00
7301	" " double, " " " " " " " "	12.00
7302	" " single, hard rubber covered, with hard rubber pads	14.00
7303	" " double, " " " " " " " "	15.00

Hood's Truss, Plain Style

7304	" " single, russet leather covered, with kid pads	6.00
7305	" " double, " " " " " " " "	7.00
7306	" " single, hard rubber " " " " " "	8.00
7307	" " double, " " " " " " " "	9.00

Stock sizes range from 30 to 44 inches.

Either style truss furnished with water pads at an additional price of 75 cts. each.

SENSELESS NOTE.—We give our careful attention at our office to the fitting and adjusting of special cases by competent male and female attendants.

For Terms and Particulars, see page 514.

Trusses for Hernia.

LEATHER COVERED TRUSSES, ADULT'S. 1



7224



7226



7227-7228



7229-7230



7230



7231

Single Trusses.

7224*	Chase's Gessine, russet leather cover; with hard rubber pad	\$3.00
7225*	" Femoral, fine calf cover; with hard rubber or water pad	5.00
7226*	Gessine Radical Cure, fine calf cover; with adjustable hard rubber oval center pad, surrounded with soft rubber ring cushion; nickel-plated fixtures; spring steel lock pad. Applied from the well or opposite side	7.50
7227*	Self Screw or Lock Pad, calf leather cover; with hard rubber pad	4.00
7228*	" " " " russet leather cover; with kid covered composition pad	3.50
	Applicable to either side.	
7229*	Rhetish, fine calf cover and large kid pad, with filled understrap, for severe cases of scrotal hernia	5.00
7229a*	" fine calf cover and extra large kid pad; with filled understrap	6.50
7230*	French Adjustable, russet leather cover, nickel-plated fixtures; with kid pad	7.50
7231*	" pattern, with concave pad for irreducible hernia; made to order only, according to size required. Give full details when ordering	\$6.00 to 95.00

Stock sizes range from 30 to 44 inches.

Composition Pads—Made of a compound material, a substitute for soft rubber and light in weight as cork.

Water Pads—A soft rubber bag, braced and shaped with a metal plate, and filled with water.

For Terms and Particulars, see page 514.

All trusses illustrated are designated by a*.

Trusses for Hernia.

LEATHER COVERED AND ELASTIC TRUSSES, ADULT'S. §



7246



7248



7249



7250



7261-7264

Double Trusses.

- | | | |
|--------|--|--------------------|
| 7246.* | French Adjustable, fine russet leather cover; with kid pads and spring back pad; nickel-plated fixtures | \$6.50 |
| 7248.* | Rhenish, fine calf cover, with large kid pads and folded understraps; for severe cases of scrotal hernia | \$10.00 to \$12.00 |
| 7249.* | Combination; this illustrates how combinations can be made to order, where a double truss is needed, with a hernia on one side either extra large or very difficult to hold. Special sizes and shapes made to order. | \$20.00 to \$25.00 |
| 7261.* | Elastic, extra heavy thread elastic webbing; nickel-plated fixtures; with hard rubber or kid pads | 4.00 |
| 7262.* | " Same as 7261; with water pads | 4.50 |
| 7263.* | " extra heavy silk elastic webbing; nickel-plated fixtures; with hard rubber pads | 5.00 |
| 7264.* | " Same as 7263; with water pads | 6.00 |

- 7250.* Adjustable Understrap, made of canvas or kid leather, with buckle loop. Can be used on any single or double truss where understraps are deemed necessary. Each

25

Stock sizes range from 30 to 44 inches.

For Terms and Particulars, see page 514.

All trusses illustrated are designated by a *.

Trusses for Hernia.

ELASTIC TRUSSES, ADULT'S. }

Trusses with Elastic Bands are excellent styles for use at night to continue the support given by a Spring Truss during the day; this assists in a Radical Cure, and a cure is only accomplished by giving a continuing support to the hernia, not allowing its protrusion at any time, which permits nature to make the cure by contracting the opening.

A carefully fitted Spring Truss will hold a Hernia with more comfort and in more gentle order of conditions and will effect a Radical Cure more quickly than an Elastic Truss.



7250 to 7253



7251



7252



7256

Single Trusses.

- 7256* Elastic, reversible, for right or left side, extra heavy thread elastic webbing; nickel-plated fixtures; with hard rubber pad \$2.90
 7257* " " Same as 7256; with water pad 2.75
 7258* " " Same as 7256, but of extra heavy silk elastic webbing; with hard rubber pad, \$3.50; with water pad 3.25

All of the above Trusses are applied from the *well* or *opposite side*.

- 7259* Elastic, Scrotal (not reversible), extra heavy elastic webbing; with soft felt pad; suitable for scrotal hernia 1.90

Post-Operation Trusses.

- 7260* Elastic, with flat hard rubber adjustable pad; an excellent truss for support after castration, openfolds, or any hernia operation. Applied from the operated side 4.00
 7261* " " Elastic, single; flat, chamois covered, flexible pad, with perineal strap permanently attached; thoroughly adjustable; an excellent protection and temporary support after hernia operation. Applied from the operated side 3.50
 7262* " " Elastic, single; flat, chamois covered, flexible pads, with perineal straps permanently attached; thoroughly adjustable 6.00

In addition to circumference of the body, state length of incision, and if single, whether for right or left side.

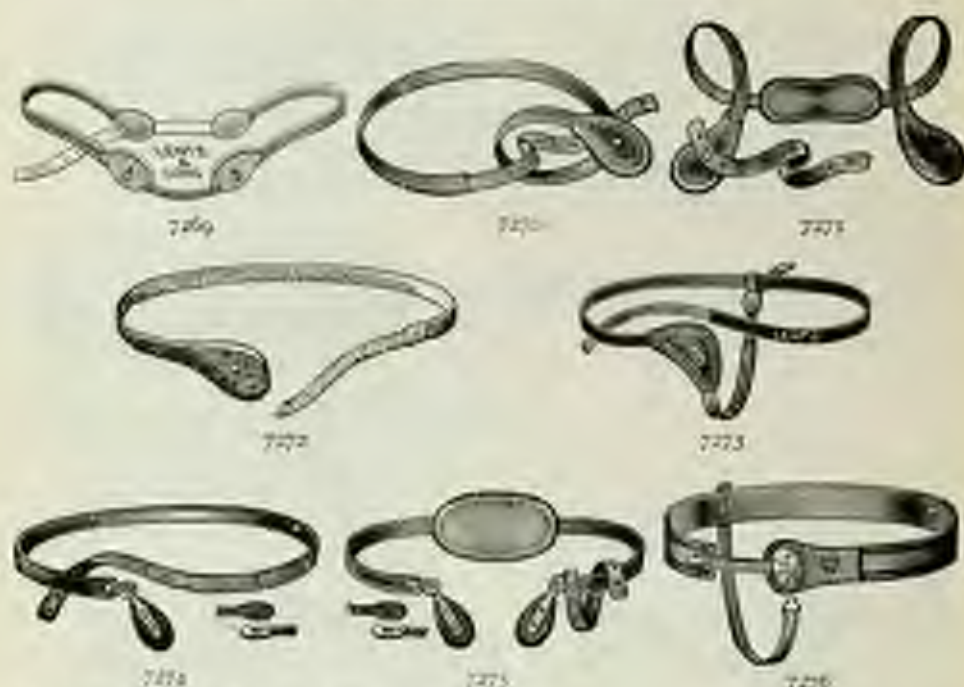
Stock sizes range from 30 to 44 inches.

For Terms and Particulars, see page 514.

All trusses illustrated are designated by a*.

Trusses for Hernia.

YOUTHS' AND CHILDREN'S TRUSSES. I



Single and Double Trusses, Leather Covered.

		Ch. Men	Youths
7268.	Hood's, Single, russet leather cover, with kid pads	\$4.00	\$4.50
7269.*	Double, " "	4.50	5.00
7270.*	French, Single, fine calf cover; with kid pad	2.00	2.50
7271.*	Double, " "	3.75	4.50
7272.*	Single, gum elastic coated light and elastic steel spring; with stuffed pad entirely covered with a durable water-proof coating; clean and comfortable	3.00	4.00
7273.*	German Improved, Single, fine Russia calf cover, with kid pad and folded cloth understrap; well adapted for scrotal hernia	2.50	3.00
7274.*	Chase's, " Double, fine Russia calf cover; with kid pads and folded cloth understraps	4.50	5.50
7275.*	" Single, russet cover; with hard rubber pad; applicable from either side	1.25	2.00
7276.*	" Double, russet cover; with hard rubber pads and kid covered spring back pad	1.75	1.75

Single and Double Trusses, Elastic.

7276.*	Single, reversible, for right or left side; with hard rubber pad	1.50	1.75
7277.	with water pad	2.00	2.25
	Applied from the well or opposite side.		
7278.	Double, similar to 7276; with hard rubber or water pads	3.00	3.50
	Child's sizes are 10 to 21 inches.		
	Youth's sizes are 22 to 29 inches.		
7279.	Adjustable Understrap, made of chambray or kid leather, with tape loop. Can be used on single or double trusses where understraps are found necessary	15	35

For Terms and Particulars, see page 514.

All trusses illustrated are designed by a *.

Trusses for Hernia.

HARD RUBBER COVERED TRUSSES, ADULT'S. I



For many cases of Hernia we would recommend the Hard-Rubber Trusses. In these Trusses the finest grade of steel springs are used, combining elasticity, toughness and proper shape, essential in adjustment and use, and being covered with highly-polished hard-rubber they are unaffected by time, use, or climate, and may be worn in bathing. All our Hard-Rubber Trusses have nickel plated mountings.

On the following pages we illustrate the most perfect styles and patterns now in use, and in our appliances the profession have at command trusses of such practical shapes that they fit the largest average of cases without modification, and when adjusted properly can be depended on to retain the hernia.

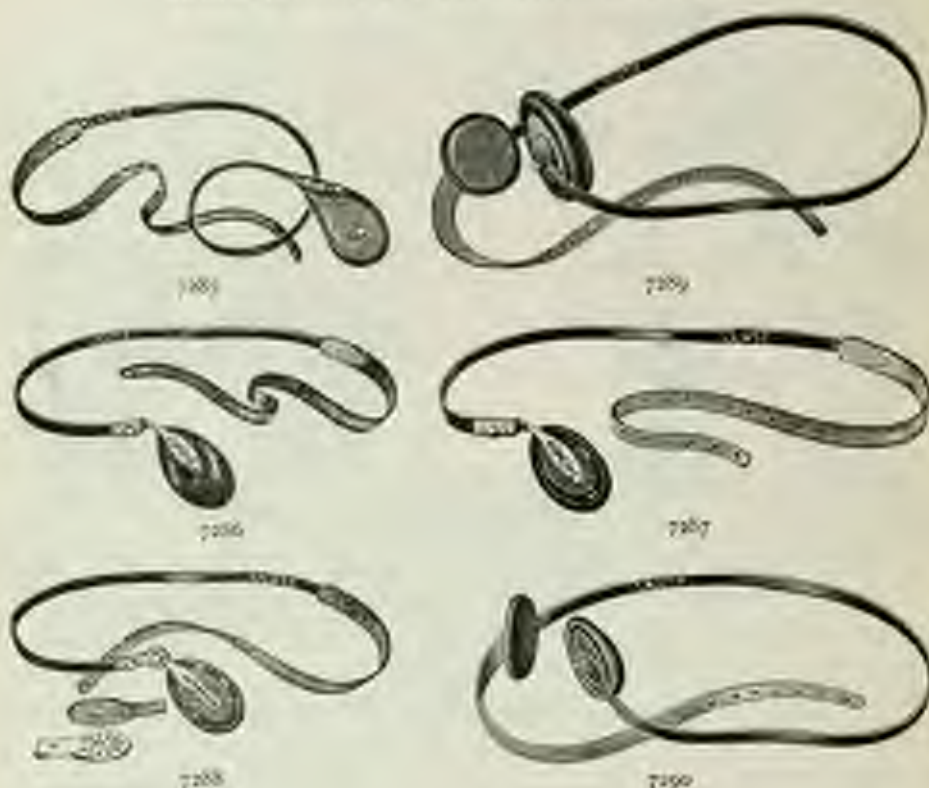
Many physicians and surgeons in Philadelphia and vicinity usually send their patients to us to be fitted, as we have a full knowledge of the mechanical treatment of hernia, and carry in stock a large assortment of trusses to select the most suitable pattern for each case.

Directions for Shaping Hard Rubber Trusses.

Pass through a flame, made by a gas jet, spirit-lamp, or twisted paper, pass quickly back and forth the Spring to be manipulated, until warm (not hot) to the touch, when the Truss is in proper condition to shape to the form required. Then manipulate it the same as you would a Leather Covered Truss, or over arm of chair as shown, and when cool the rubber will be found to have taken the new set or shape given the Spring. To increase the power of Truss, warm as described above, then draw Spring well together, holding it until entirely cool; to weaken power, warm as shown above, then open gradually, or bend carefully over arm of chair, holding open until cool.

Trusses for Hernia.

HARD RUBBER-COVERED TRUSSES, ADULT'S. 7



Single Trusses.

- 7285.* French pattern, very light and elastic spring, suitable for incipient cases of hernia, when only light pressure is required. Can also be supplied with strong spring when specified. \$4.50
- 7286.* Chase's Design, with improved nickel plated wrought metal malleable neck, not reversible. 5.50
- 7287.* " Femoral, with wrought neck, can be properly shaped to give the support required in this form of hernia; not reversible. 5.50
- 7288.* " Improved, with reversible clasp joint feature; application to either side. 5.00
- 7289.* English, or Cross Body pattern, with continuous spring, and hip pad. Applied from the well of opposite side, reversible to right or left. 5.50
- 7290.* Femoral Cross Body pattern, with hip pad. 5.00

This style is not reversible, but is made both Right and Left, and has a spring especially shaped for Femoral Hernia, so that it will give the best support for this most dangerous form. It is fitted with a suitable hernial pad.

For Irreducible Femoral Hernia, we can make a Concave Hard Rubber Pad, if hernia is of moderate size, or an Aluminum Pad if of a larger size. Give size of hernial tumor after all is returned to abdomen that can be.

Waist pads can be added to any of the above Trusses; additional, 75c.

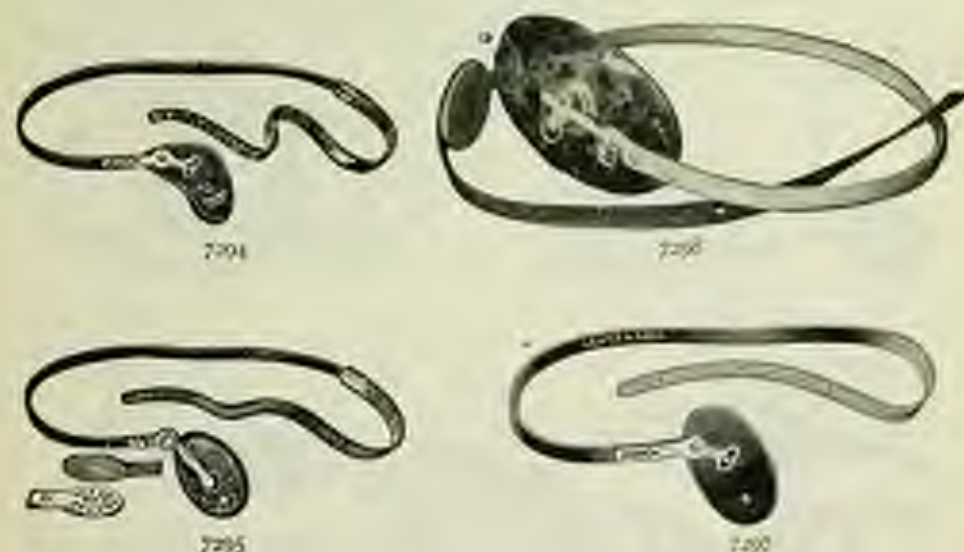
Sock size range from 32 to 44 inches.

For Terms and Particulars, see page 514.

All prices illustrated are designated by a*.

Trusses for Hernia.

HARD RUBBER AND CELLULOID COVERED TRUSSES, ADULT'S.



Single Trusses.

- 7294.* French, Adjustable; the pad can be moved laterally by regulating it at the set screw on the fixture \$5.50
- 7295.* Set Screw or Lock Pad, with reversible clasp joint fixture and powerful leverage; reversible to right or left 3.50
Water Pads can be applied to 7294 and 7295 Trusses; additional, \$1.00
- 7296.* Adjustable, Post-Operation pattern, with flat hard rubber pad, which can be moved laterally to conform to the angle of the incision and then secured by the set screw to the metal fixture. For use after celiotomy, appendicitis, or any hernia operation. Applied from the operated side . . . 6.00
- 7297.* Cross Body, Post-Operation pattern; continuous spring, celluloid covered; light in weight and sanitary. Flat and perforated celluloid pad, thoroughly adjustable. For support after appendicitis or ventral hernia operation. Applied from the well or operated side 6.00

In addition to circumference of the body, state length of incision, and whether for right or left side. See directions on page 522.

Stock sizes range from 30 to 44 inches.

For Terms and Particulars see page 514.

All trusses illustrated are designated by a *

Trusses for Hernia.

HARD RUBBER COVERED TRUSSES, ADULT'S. [



7300



7301



7302



7303

Double Trusses.

- 7300.* French pattern, very light and elastic springs, best pattern for incipient cases of hernia, can also be supplied with strong spring when specified . . . \$5.00
- 7301.* English pattern, with plain convex hollow pads or with convex pads much thicker at lower end . . . 3.00
- 7302.* French Adjustable; the pads can be moved laterally by regulating them at the set screws of the fixtures . . . 9.00
- 7303.* Set Screw or Lock Pad, with reversible clutch joint fixtures and powerful leverage . . . 20.00

Water Pads can be applied to any of the above trusses; additional . . . 1.50

Spring Back Pad.—Double Trusses are always sent with spring back pads, unless otherwise ordered; the spring back is formed by a tempered steel spring, covered with hard rubber and fastened to the two back pads, with screws running in a slot for adjustment, thus giving the advantage of a continuous spring with adjustment. This style of back pad is used on all our double hard rubber trusses.

Stock sizes range from 30 to 42 inches.
For Terms and Particulars, see page 314.
All trusses illustrated are designated by a*.

Trusses for Hernia.

YOUTHS' AND CHILDREN'S TRUSSES.



Single and Double Trusses, Hard Rubber.

	Child's	Youth's
7308. Hood's, Single	\$4.50	\$5.00
7309.* " Double	3.00	5.50
7310.* French pattern, Single, very light and elastic spring	2.00	1.50
7311.* " Double, very light; with spring back pads	5.50	6.50
7312.* English Cross Body pattern, Single, reversible to right or left; with or without hip back pad. Applied from well or opposite side	3.00	1.50
7313.* English pattern, Double; with spring back pads	5.50	6.50

Umbilical Trusses.

7314.* French pattern; hard rubber spring and pad	3.00	1.50
7315.* Elastic; double web belt, with aid pads	1.75	2.00
7316.* Elastic; thread elastic bands; with hard rubber shell pad; extremely light weight. (Will not get out of shape.)	2.00	2.25
7317.* Pure Gum Elastic, with inflatable pad; laces at back; this belt will not slip; can be worn with comfort and washed daily if desired. Made in nine sizes from 10 to 18 inches	2.00	
7318. Elastic; thread elastic band 1 1/2 in. wide, with soft sponge-rubber pad; very comfortable	2.25	2.50
7319a.* Umbilical Button, aluminum; three sizes	each 50	
7319b. " " hard rubber	each 60	

Child's sizes are 12 to 21 inches.

Youth's sizes are 22 to 29 inches.

For Terms and Particulars see page 514.

(All trusses illustrated are designated by a *.)

Trusses for Hernia.

UMBILICAL TRUSSES, ADULT'S.



7320



7323



7324



7325



No. 1



No. 2

7326

- 7320.* Elastic, extra heavy and broad breast webbing with fine kid pad; sizes 30 to 34 inches \$4.75
- 7321.* Elastic, same as No. 7320, with hard rubber pad 5.00
- 7322.* French pattern, leather covered spring, with kid pad; sizes 30 to 44 inches 4.00
- 7323.* French pattern, hard rubber covered spring, with hard rubber oval abdominal plate and center pad; sizes 30 to 44 inches 6.00
- 7324.* Hilgite Spring, French pattern, hard rubber covered springs with hard rubber oval abdominal plate and center pad 9.00
- 7325.* Hilgite Spring, Improved French pattern 11.00
- Made with double springs to fasten in front, on a small bow-spring with centers only bearing directly on center of umbilical pad; this, while giving an addition to the pressure of body springs, allows the pad to accommodate itself better to the abdomen around navel. Made in three sizes of abdominal plates and three sizes of center pads. Stock sizes, 35 to 36 inches. Other sizes of springs and pads to order. See also our Combination Umbilical Belt, Fig. 7335.

NOTE.—These styles illustrated above are often used alone for umbilical hernia, but many persons require their combination with abdominal belts, and corpulent persons should always use a belt in combination.

7326.* Concave Pads for Irreducible Hernia.

When a hernia becomes irreducible through neglect, it is necessary to give close support to the irreducible portion, so that strangulation may be prevented; by close care the irreducible portion may be reduced and sometimes entirely returned to abdomen. For this purpose we make a Concave Pad which is used to best advantage in combination with our Nos. 7335 or 7336 abdominal supporters. Measures must be taken after everything is returned to abdomen that can be; the length, breadth and depth of the irreducible portion must be given, and location as measured from navel line and pubes.—Made only to order.

When ordering umbilical trusses give circumference around body directly on line of rupture.

For Terms and Particulars, see page 514.

Abdominal Supporters.

In order to obtain the best results, the greatest care and attention is required in the fitting of abdominal supporters. Our experience in manufacturing and adjusting them assures to your patients safety and comfort.

Abdominal supporters are made for the purposes of reducing corpulency; to protect the wound after operations for appendicitis, etc.; for support before and after child-birth; to prevent umbilical (navel) hernia; for floating kidneys; for uterine troubles, and all abdominal weaknesses.

The following pages, representing a few of the most desirable styles will aid you in making a proper selection. For special cases our experience and advice are at your service.

Mail orders are filled promptly. Any cases which the physician may describe to us, will be studied carefully and the proper appliance selected.

Patients who are entrusted to our care are waited on by a staff of competent attendants, both ladies and gentlemen. The second floor of our establishment (private service) is provided for the convenience of our patrons with a reading room and with a series of six private fitting rooms.

DIAGRAMS FOR MEASURING AND ADJUSTING ABDOMINAL SUPPORTERS.



Directions for Measuring and Adjusting Abdominal Supporters.

Give circumference measurements at K, avoiding fullness of abdomen; at L, or umbilicus, and at M or where top of belt is to come. (See side view in figure B.) Where abdomen is pendulous, always raise this portion and take measure and reach same.

Give exact measures; we make necessary allowances for compression, which varies according to style of belt and condition of abdomen.

For depth, when extra wide belt is required, take measure separately from K to L and from L to M. In most cases the widths as furnished in proportion to length will be found correct.

Always apply belt as low down as thighs will permit. (See figure A), and be careful that no more and generally not as much compression be given at top as at bottom of belt.

For umbilical hernia, where our combination supporters are used, note closely that if umbilicus is not located at L, or fullest part of abdomen, then separate depth measure should be given from K, or bottom of belt, to umbilicus.

Figure C is a guide for cases where supporters are to be worn after operations, and a suitable pad is to be worn to protect incision. Give distance from J (top of incision), to dotted line down centre; from J to S, and from J to A. This enables us to locate the position of incision.

Fitting and adjusting of special cases given careful attention at our Patients' Department.

Private Fitting Rooms.

Expert Attendants, both Ladies and Gentlemen.

When referring patients to us, kindly send a letter of introduction and instructions.

When fitting at their homes or at hospital those patients who are unable to call at our establishment, we charge a moderate fee over catalogue prices.

Abdominal Supporters.



7332



7335



7336



7340



7337

7332*	Abdominal Supporter. All elastic belt, buckled at sides.	
	XX quality, stout silk elastic	\$10.00
7333	" " " " " " " " " " " "	8.50
7334	" " " " " " " " " " " "	7.50
7335*	" " " " " " " " " " " "	7.50
	All elastic belt, buckled at sides.	
	XX quality, stout silk elastic	10.00
7336	" " " " " " " " " " " "	8.50
7337	" " " " " " " " " " " "	7.50

Any of the above supporters up to 46 inches at prices given; larger sizes at slight advance.

These supporters are made entirely of elastic fabric similar to elastic hosiery, but generally of heavier material. Used to advantage by corpulent people, both men and women, for supporting the abdomen, thus giving comfort and absolute safety from umbilical hernia; also used before and after child-birth, for floating kidney and after abdominal surgery. The fabric is a woven material that ventilates and gives comparative comfort in warm weather. Width of belts, 7 to 10 inches, in proportion to circumference.

7338* Combination Umbilical Belt is made to order from Nos. 7332 or 7335 all elastic abdominal belts put up with No. 7340 double spring hard rubber mechanical press. According to quality of belt desired. \$14.00 to \$17.00

This combination is found to be an excellent appliance and adapted for very stout persons with umbilical hernia.

7339* Combination Umbilical Belt, (all elastic) is made to order from Nos. 7332 or 7335 all elastic abdominal belts put up with No. 7340 hard rubber pad and strong elastic webbing attached. Can be worn often where springs are objectionable, and generally preferred for irreducible umbilical hernia where concave pad No. 7336 has to be worn. According to quality of belt desired. \$12.00 to \$15.00

Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

Abdominal Supporters.



7345-7345a



7346



7347



7348

7345* Abdominal Supporter, "Philadelphia," made of silk elastic front and back, and satens sides; buckled at sides. Width in front $6\frac{1}{2}$ to 8 inches, in proportion to circumference. Very light and durable. Not intended for extremely corpulent persons. Any size up to 40 inches. . . . \$5 00

7345a* Abdominal Supporter, "Philadelphia," made of best quality silk thread elastic. . . . 4 25

7346* Abdominal Supporter, adjustable lift-up strap in front; silk elastic front and back, satens sides. Sizes up to 36 inches. Not recommended for larger sizes. . . . 3 00

7347* Abdominal Supporter, "German," satens front and back, stout elastic webbing at the sides, buckling at back. Width in front $6\frac{1}{2}$ to 8 inches, in proportion to circumference. Sizes from 26 to 36 inches. . . . 3 00

This is a light, comfortable belt for small and medium-size persons, but not suitable in sizes above 36 inches.

7348* Abdominal Supporter, "Stuttgart," made of best German satens, steel color; strong elastic at sides over hips, elastic bands with buttons and eyelet holes at the back. It is buckled in front, the band rendering additional support. Width, $6\frac{1}{2}$ to 8 inches, in proportion to circumference. Stock sizes from 26 to 40 inches. . . . 4 00
Larger sizes of this pattern made to order. . . . \$5 00 to 6 00

"Summer Wear." Nos. 7347 and 7348 are also furnished of open-mesh material at a slight advance in price. Cool, light and comfortable.

7349* Abdominal Supporter, "English Lift-up." Its construction allows a perfect regulation of pressure, especially where it is desired to give additional support at the lower part of the abdomen, yet to avoid undue pressure upon the upper region. Sizes from 26 to 42 inches. Made of stout silk elastic \$5 00.

7349a* Abdominal Supporter, "English Lift-up," made of best quality silk thread elastic. . . . 7 00



7349-7349a

Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

Abdominal Supporters.



Fig. 1



7352-7354



Fig. 3



7352



Back view of 7352-7353-7354

- 7352* Abdominal Supporter, self-adjusting, "Dresden;" made of best quality German satin with strong elastic at sides over hips, and elastic bands with studs and eyelet holes at back. It is divided in front and laced to permit exact adjustment. The belt buckles in front, the band rendering additional support. For sizes, see foot-note.

Sizes 28 to 40 inches.

Size 28 inches, \$7.50; 34 inches, \$7.60; 40 inches, \$8.00; 48 inches, \$8.50.

"Summer Wear." The Dresden Abdominal Supporter is also furnished of open-mesh material at a slight advance in price. Cool, light and comfortable.

- 7353* Abdominal Supporter, self-adjusting, "Bremer." A combination supporter for uterine or ravel hernia, in conjunction with a lifting support for the abdomen. Made of extra strong German satin, with strong elastic at sides over hips, and adjustable elastic webbing along the lower border which affords the lifting support. It is divided in front and laced to permit exact adjustment. The belt buckles in front, the band rendering additional support.

Furnished with a flesh-colored slightly concaved corker pad with bow-spring, Fig. 2, for irreducible hernia. For sizes, see foot-note.

Sizes 28 to 40 inches.

Size 28 inches, \$9.50; 34 inches, \$9.60; 40 inches, \$9.80; 48 inches, \$10.20.

- 7354* Abdominal Supporter, self-adjusting, "Bremer;" same as No. 7353, but with hard rubber oval abdominal plate with apex center (see Fig. 2, for reducible hernia, instead of pad Fig. 1). For sizes, see foot-note.

Sizes 28 to 40 inches.

Size 28 inches, \$9.50; 34 inches, \$9.60; 40 inches, \$9.80; 48 inches, \$10.20.

Note.—Abdominal Supporters Nos. 7352, 7353 and 7354 are marked in inches with the actual size they measure, and they will fit patients measuring in proportion to size from two to six inches larger.

All other abdominal supporters, measures smaller than indicated, the number representing the size which the belt is intended to fit after due allowance for compression has been made.

Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 514.

Abdominal Supporters. D



7350, front view



7351



7355



7356

7350
side view

7350.* Abdominal Supporter for Post-Operative, Estes', made of open-mesh material, washable; a most practical and comfortable appliance devised principally to protect the incision besides affording support to the abdomen.

The general construction of the supporter is such that all undue pressure upon any of the sensitive abdominal organs is avoided, and that free muscular movement is permitted. Adjustments is provided by means of buckles and elastic straps at sides, while a pair of soft velvet-elastic understraps keep the supporter in place and add greatly to the comfort of the wearer.

A thin chamois-covered leather pad is inserted as protection to the incision after laparotomy or other abdominal operations having an extensive incision and which are followed by a large scar. Sizes 26 10 42 48. \$6 00

Larger sizes at a slight advance.

When ordering state circumference of body below crest of ilium, also location and length of incision (see page 529, Fig. C).

7351.* Appendicitis Belt, Estes', made of open-mesh material, washable. Similar to No. 7350, but exceptionally narrow, and with only one understrap; light in weight and most comfortable. Provided with a thin chamois-covered leather pad for supporting the incision. Sizes 22 to 42 in. 4 00

When ordering state circumference of body below crest of ilium and length of incision.

7355.* Abdominal Supporter, "Rushdolph," covered elastic; made of soft linen interwoven with protected rubber thread; the rubber thread being covered with linen is more durable than similar supporters made with unprotected rubber thread; made in three widths, 8, 10 and 12 inches.

8 inches wide, suitable for persons measuring 24 to 30 inches 2 50

10 inches wide, suitable for persons measuring 32 to 38 inches 2 75

12 inches wide, suitable for persons measuring 44 to 50 inches 3 00

When ordering state largest circumference of abdomen and width desired.

7356.* Truss for Support of Floating Kidney, Schroeder's; well padded; the neck of the spring is bent upward and slightly inward, avoiding pressure upon the spinal process; the pad is thick at the lower margin. Single truss, \$8 00; double truss 14 00

Directions for Measuring and Applying, see page 520.

For Terms and Particulars, see page 514.

Abdominal Supporters.



7357, front view



7357, back view



7358-7359



7359-7360

- 7357.* *Supporter for Relief of Sacro-Iliac Sprain and Luxation, James K. Young's.* Consists of an Abdominal Supporter of special construction with the addition of a triangular pad, which is well cushioned in order to exert pressure upon the sacrum. The desired pressure either to the upper or to the lower region of the sacrum is regulated by means of two semi-circular, hard-tempered steel springs, to which strong straps are attached, which are buckled in front. Perineal straps are furnished when required.

Directions for measuring abdominal supporter, see page 529.
In addition give contour of sacrum.

According to size

\$10.00 to \$14.00

7358. *Supporter for Relief of Sacro-Iliac Sprain and Luxation, R. L. Peck's.* Made of strong non-elastic webbing, reinforced at various places with light, pliable steel stays; adjustable in front by means of straps and buckles; perineal straps are provided.

When ordering, state circumference of pelvis above trochanter and circumference just above crest of ilium.

According to size

\$4.00 to 5.00

7359. *Whooping Cough Belt, Kilmer's;* made of linen material with silk elastic webbing inserted at sides; lacing at back. When ordering, state age of child and circumference of abdomen at the navel

3.00

7358. *Abdominal Supporter, Fitch's pattern, hard rubber;* sizes 30 to 44 inches

8.00

- 7359.* " " combined with uterine support; fine pebble leather, satin lined; with globe stem pessary

6.00

- 7359.* " " combined with uterine support; fine calf leather, satin lined; with globe stem pessary

7.00

- 7360.* " " combined with uterine support; fine calf leather, satin lined; with globe stem pessary

5.00

- 7360.* " " London, fine russet leather; sizes 24 to 44 inches

3.00

- 7360.* " " London, fine russet leather; extra deep front and extra finish; sizes 24 to 44 inches

5.00

Directions for Measuring and Applying, see page 529.

For Terms and Particulars, see page 524.

Pads for Abdominal Supporters.



7362



7363



7364

- 7362* Pad for support and protection after celioscopy, appendicitis or hernia operations; made of either hard rubber or kid. \$1.25
- 7363* Pad for supporting floating kidney, orange slice shape; made of soft material, covered with fine kid leather; three sizes. Small \$1.00; medium, \$1.25; large 1.50
- 7364* Pad for supporting floating kidney, triangular shape; made of soft material; three sizes. each 1.50

These pads are applicable to any style supporter; however, the full elastic supporters are preferable, as they exert a more continuous pressure.

Unless the location can be given quite exactly, we do not clip the supporter with the pad fastened, but recommend that the physician and the patient experiment until the location is discovered where the most benefit is obtained. To this end apply the supporter with a fair pressure, then clip the pad in place (it is not likely to move from the motion of the body). Within a few hours the proper spot will be located, when the outline of the pad should be marked on the material, and the pad sewed to the inside.

Elastic Bandages.

FOR THE TREATMENT OF VARICOSE VEINS AND OF DISEASES OF THE SKIN.



7364



7365



7366



7367

- 7364* Rubber Bandage, Martin's, pure gum; best stout rubber; with tape.
2 inches wide; 9 feet long, \$1.50; 12 feet long, \$2.00; 15 feet long, \$2.40
2 1/2 " " " " " 1.85; 12 " " 2.40; 15 " " 3.00
3 " " " " " 2.20; 12 " " 2.90; 15 " " 3.60
- 7365* Covered Elastic Woven Bandage, "Randolph;" made of cotton, interwoven with covered rubber.
The sizes indicate measurements when stretched.
3 yards long; 2 inches wide, 50c; 2 1/2 inches wide, 45c; 3 inches wide, 60c
5 " " " " " 80c; 2 1/2 " " 1.00; 3 " " 1.20
8 " " " " " 1.00; 2 1/2 " " 1.00; 3 " " 1.20
- 7366* Smooth Web Elastic Bandage; close woven, interwoven with rubber, thin and compact; very smooth and neat in appearance.
The sizes indicate measurements when stretched.
3 yards long; 2 inches wide, 40c; 2 1/2 inches wide, 50c; 3 inches wide, 60c
5 " " " " " 80c; 2 1/2 " " 1.00; 3 " " 1.20
8 " " " " " 1.00; 2 1/2 " " 1.00; 3 " " 1.20
- 7367* "Rubberless" Elastic Bandage; made entirely of cotton.

Its elasticity is due to the peculiar weave of the individual threads. It can be rolled evenly; reversing is unnecessary. It may be washed freely. The continual and even pressure given by this bandage makes it desirable for use in all cases where a rubber or a farmed bandage would be indicated.

Made in one length only, 5 1/2 yards when stretched.

2	inches wide, each, 30c; net; per dozen, \$2.50 net
2 1/2	" " " " " 35c " " " 3.50 "
3	" " " " " 40c " " " 4.00 "
4	" " " " " 50c " " " 5.00 "

Prices subject to change, without notice.

Elastic Surgical Hosiery. □

For the relief and support of varicose veins, weak, swollen or ulcerated limbs.

DIRECTIONS FOR MEASUREMENTS.

Measurements should be taken in the morning when practicable, as the birds become irritated in the day as the day advances.

Give the actual measurements of birth at points required, as per annexed diagram. We allow for compression.



For a THIN STOCKING.—Circumference at A, B, C, D, E, F, G, H, I. Length from sole of foot to F and from F to I.

For a Thin Larvae.—Circumference at C, D, E, F, G, H, I. Length from C to E, and from E to I.

FIG. 11. THICK KITE CAP.—Circumference at E, F, G, H, I. Length from F to I.

For a Taper Piece.—Circumference at G, \hat{H} , I
Length from G to I.

For 2. Kure Stockings—Circumference at A, B, C, D, E, F, G Length from sole of foot to F.

For a KNOT LACINE.—Circumference at C, D, E, F,
G. Length from C to F.

For a KNOT COB.—Circumference at E, F, G.
For a GARTER STOCKING.—Circumference at A, B.

C, D, E. Length from side of foot to E.
For a GASTRA LINGUAE.—Circumference at C, D, E.

For 24 AXLET—Circumference at A, B, C. Length

For a WHISTLE.—Circumference at N, O, P. Length

For a Mitteny.—Circumference at R, S, T. Length

For an Unwound Coil—Circumference at U, V, W.

Length from U to W.
For a SNOTHER CAP.—Circumference at X, Y, Z.

Length from X to Y, and from Y to Z.
Specify whether for right or left shoulder.

For an ARBOREAL TILT—Circumference at K, L, M, and depth is from front K to M.

State quality of material desired.
For prices, see next page.

State quality of material desired.

For prices, see next page.

Every article is made to order, strictly according to measurements given, so that an equal pressure is obtained at all points, which is not the case with goods usually obtained of dealers who supply orders from ready-made goods, which seldom fit properly.

Goods made to order at the risk of the purchaser. We can correct at our expense only where the error is ours.

⁴²Attention is called to above explicit directions for measuring Elastic Stocks, etc. by carefully observing them, an accurate fit can always be secured, and a reliable article can always be depended upon.

Stockings should not be worn at night, but should be put on immediately after rising.

The damage caused to stockings by drawing on and removing is greater than by actual wear. Never pull the elastic piece over a moist limb, else it will strain the fabric. Always use a thin stocking underneath and draw the elastic piece over it. Do not force the stocking, but turn it inside out, down to the lower part, or foot, and then take hold of the folded part and draw on closely over foot and heel. After this is done, roll out the fold a short length at a time and draw on carefully, so that no strain is put on the fabric and no wrinkles are left either in the elastic stocking or the light stocking that should always be worn underneath. The thin stocking protects the elastic from the effects of perspiration; a stocking should also be worn over the elastic, as contact of clothing or shoes wears the fabric. Elastics are destroyed quickly by oils, liniments or greases in any form.

We shall be pleased to keep our customers supplied with Measurement Blanks.

Elastic Surgical Hosiery. □



Figure 1, Thigh Stocking. Figure 2, Garter Stocking. Figure 3, Anklet and Knee Cap. Figure 4, Knee Stocking. Figure 5, Garter Stocking, partly laced.

	Fine Silk	Smart Silk	Superior Fine Silk	Thread
Thigh Stocking (A to I)	\$11.75	\$13.00	\$17.25	\$12.65
Thigh Legging (C to I)	12.65	14.20	15.80	11.00
Thigh Knee Cap (E to F)	10.70	11.85	12.65	7.65
Thigh Piece (G to I)	5.15	5.95	6.70	4.50
Knee Stocking (A to G)	10.70	11.85	12.65	9.20
Knee Legging (C to G)	9.50	10.70	11.85	7.65
Knee Cap (E to G)	3.95	4.50	4.70	3.15
Garter Stocking (A to E)	5.95	6.70	7.50	4.80
Garter Legging (C to E)	4.50	4.70	5.50	3.55
Anklet (A to C)	3.95	4.55	4.70	3.15
Wrists		2.00	2.35	1.55
Mittens		3.45	3.95	2.55
Elbow Cap		3.15	3.95	2.35
Shoulder Cap		11.85		9.20

Prices January 15, 1920

Above prices are for regular sizes, being limited in measurements as follows: Circumference at C up to 20 in.; at D up to 18 in.; at E up to 16 in.; at G up to 18 in.; at I up to 20½ in.

For Ankle, length from sole of foot to C, 2½ in.

For Garter Stocking, length from sole of foot to E, 17½ in.

For Knee Stocking, length from sole of foot to F, 18½ in.; from F to G, 5 in.

For Thigh Piece, length from G to I, 9 in.

For Legging, length from C to E, 12½ in.

For Knee Cap, length from E to G, 9 in.

For sizes above these measurements add to prices listed 25c. per inch circumference and 25c. per inch in length.

An article to lace may be used to advantage where the condition of the limb will not permit of the drawing on of a solid piece, in cases where ankle is too small to permit the piece to be drawn over the heel without over-straining; or where there is overmuch swelling to be reduced. As the lacing is put on inner side, it is necessary to state whether article is wanted for right or left limb. Additional charge for Garter Stocking, partly laced, 50c.; full length laced, 75c.; Knee Stocking, partly laced, 50c.; full length laced, \$1.25.

We shall be pleased to keep our customers supplied with Measurement Blanks.

Shoulder Braces. □



7370



7371



7374

SHOULDER BRACES.

- 7370.* "Diamond," for males, with suspender attachments; all webbing, with combination caps of such shape that they fit correctly over tips of shoulders. Qual. A, regular, \$1 50; Qual. B, extra strong, \$2 00; Qual. C, silk finish, \$3 00
7371. "Diamond," for females, with skirt supporters. Qual. A, regular, \$1 50; Qual. B, extra strong, \$2 00; Qual. C, silk finish, 3 00
- 7372.* "Improved Monitor," for males, with suspender attachments; steel spring back, leather covered, 3 00
7373. "Monitor," without suspender attachments; for males or females; steel spring back, leather covered, 2 50
- 7374.* "Perfection," for females; corset back, steel springs, satin covered, 2 50

Directions for Ordering Shoulder Braces.

State whether for male or for female.

Circumference of chest close under armpits.

Distance from A (point of shoulder) over back to same point on other shoulder.

Distance from C (on line between points of shoulders) to D (waist line).

For females, give also circumference of waist.

Shoulder Braces.



7375



7376



7377



7378



7379

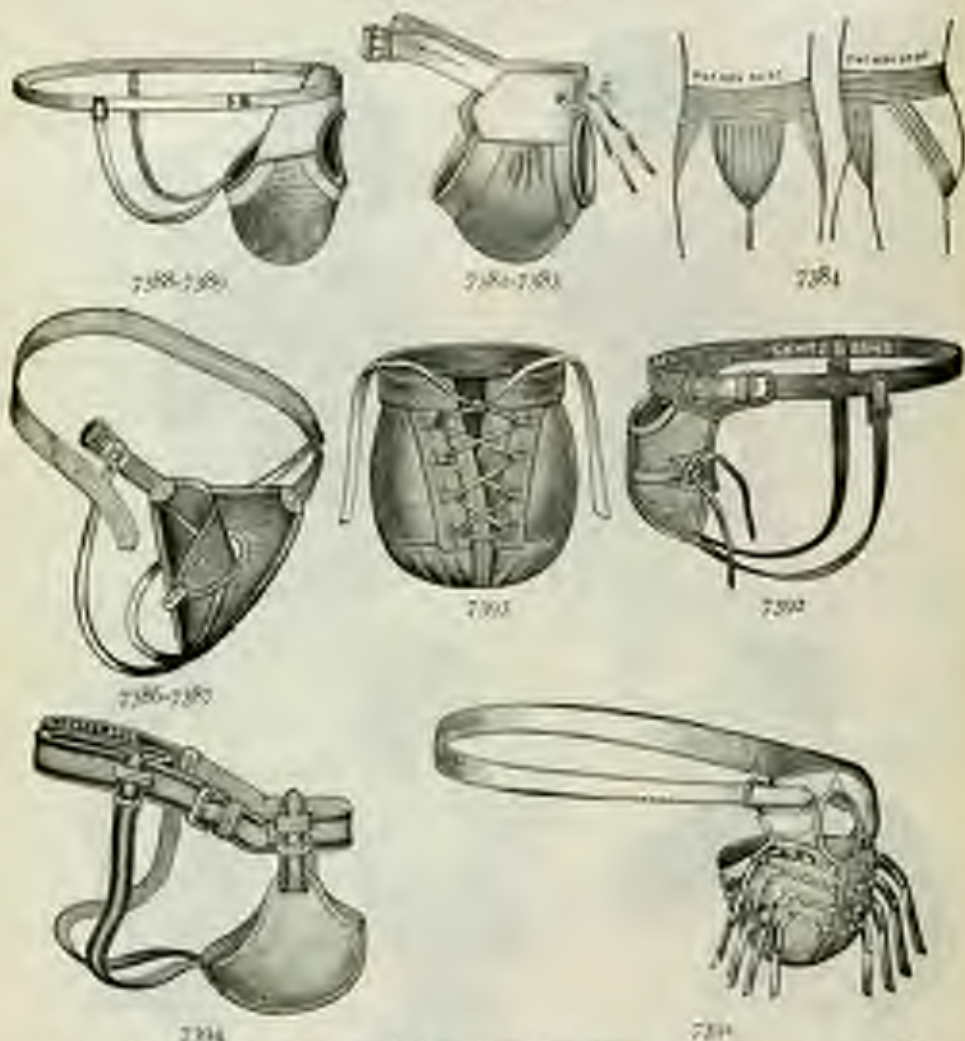
SHOULDER BRACES.

- 7375.* Lentz's Improved; for males and females; steel spring back; most valuable for extreme cases of round shoulders and for weakness of the spine. For description see Orthopedic Apparatus, Spinal Braces. Made to order. 8 00
- 7376.* "Repos," for females; an excellent support for slight curvature of the spine. It is properly strengthened at back with two broad, well-tempered steel stays. Shoulder straps are provided to allow for ample chest expansion. Adjusted by laces. 10 00
- 7377.* "Upright," for males; suspender brace. 8 00
- 7378.* "Upright," for females; made of white elastic webbing. 1 00
- 7379.* "Tender," for females; light and neat; does not cut under arms; sustains the back with comfort. 2 00

Directions for Ordering, see page 528.

All articles illustrated are designated with a *.

Suspenders. ++



- 7388.* Athletic; woven thread sock; wide draw string; three sizes. each 50 25
 7389.* Athletic; woven silk sock; wide draw string; three sizes. each 50 25
 7390.* Like Hockey Strap, all elastic, without buckles; three sizes. each 75
 7391.* Showings; woven thread fabric, with a hammock-like strip of same material furnishing a sort of trough for the penis to lie in; waistband partly elastic and smooth; all elastic understraps, which button to the belt; three sizes. each 1 00
 7392.* Indispensable to Horseback Riders, Cyclists, Gardeners, Athletes, Tourists, etc. It is the best and certain protection against abrasion and sunburn, and a certain kind of mental and physical protection. each 1 00
 7393.* Showings; woven silk fabric, otherwise same as No. 7391; three sizes. each 1 25
 7394.* Army and Navy; woven linen sock, elastic waistband and understrap; three sizes. 50
 7395.* Army and Navy; woven silk sock, elastic waistband and understrap; three sizes. 50
 7396.* Youth's Sport, strong woven thread sock, elastic waistband and understrap; three sizes. 1 00
 7397.* Lentz's extra strong, machine-stitch, chambray, waist band and understrap of non-elastic webbing, thoroughly adjustable, perfectly suited for hydrocele or irreducible scrotal hernia; large, 12 in. 8 in. 50; 14 in. 10 in. 50; 16 in. 12 in. 50.
 7398.* Serrol's Compression, open woven thread sock, with draw strings inserted through meshes of bag, so that pressure can be compressed; three sizes. each 1 25
 7399.* Serrol's Compression, Martini's modified Longfellow-Hornet's, for cystitis; strong thread sock, lined with muslin; lined at sides to exert lateral pressure; elastic waist band and understrap; three sizes. each 1 25
 7400.* Compression, Caroll's, silk elastic, for arthritis; used where compression of a single testicle is necessary; three sizes. each 1 50

All the above Suspenders are made in Three Sizes.

Section XIX.

Orthopedic Apparatus.
Artificial Limbs.

APPLIANCES FOR DEFORMITIES AND DEFICIENCIES, CONGENITAL OR ACQUIRED.

Having had many years' extensive experience, under the patronage of the most eminent surgeons, in the manufacture and adjustment of appliances for the correction of distortions and deformities of the human frame, we have the practical knowledge and are thoroughly prepared to make and fit in the most skilful manner all apparatus that may be necessary in any case of disease, deformity or deficiency requiring mechanical treatment or artificial support. All apparatus made by us are of the finest material, and of the very best workmanship that mechanical skill and ingenuity can produce.

The illustrations given in the following pages are those of the more prominent and approved forms of apparatus only, but though not covering the entire field of Orthopedic Surgery, they will still be found sufficiently numerous and varied to facilitate the ordering of mechanical appliances for every part of the body. By careful reference to them physicians at a distance can have apparatus made for their patients with every certainty of perfect comfort and complete satisfaction.

While we prefer in each case to work under the direction of the attending physician, carrying out his wishes with all possible accuracy, yet should advice or consultation be needed, we will always stand ready to assist, in any way within our power, that the physician and patient may be alike benefited.

OUR TERMS ON ORTHOPEDIC APPARATUS. ±

Prices specified in this section are prices to patients, and when order is sent to us by the physician, we allow him thereon 25 per cent. discount; but when the patient is sent to us to be measured and fitted, we allow the physician only 15 per cent. discount. (Discount on Artificial Limbs given on application).

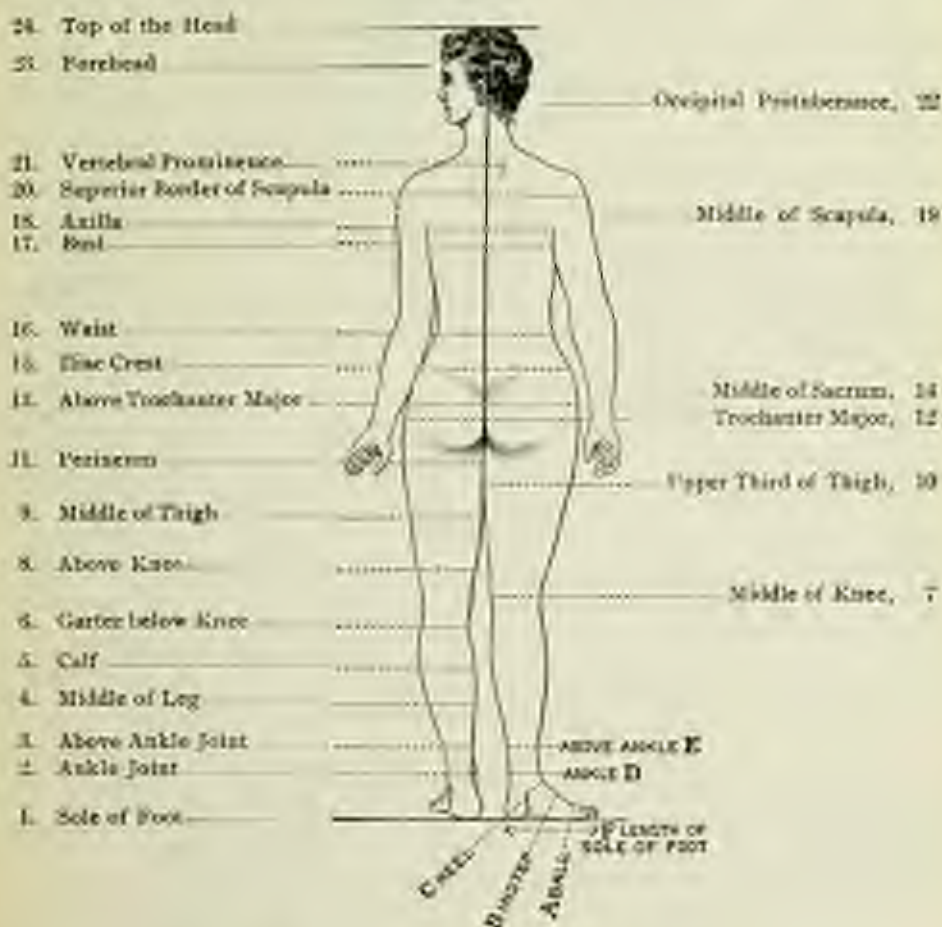
Physicians will please collect from their patients at least one-third of the amount in advance, and remit same to us when ordering. Unless directed otherwise, apparatus will then, as soon as finished, be sent direct to the patient, collecting the balance C. O. D., thus relieving the physician of all financial responsibility. In cases of this kind, we collect the full price of the brace and pass the commission to the credit of the physician, or remit same to him, if desired. We suggested this plan some time ago, because of the numerous requests made by the physicians for an extended credit on appliances of this kind, they claiming that they could not afford to pay us cash for them and then wait the will and pleasure of their patrons.

All appliances for deformities are manufactured to order, therefore physicians will see the necessity of requiring their patients to pay a portion of the amount when the order is taken and the balance on delivery of the apparatus.

Experience has shown us that the appliances of this character are not always comfortable when first worn, and that patients are at that time easily discouraged or dissatisfied with trivial matters; and while we make any changes necessary without charge (where the fault is ours), we must ask physicians to protect themselves and us to the fullest extent.

Diagram for Orthopedic Measurements.

EXPLANATION OF FIGURES AND LETTERS.



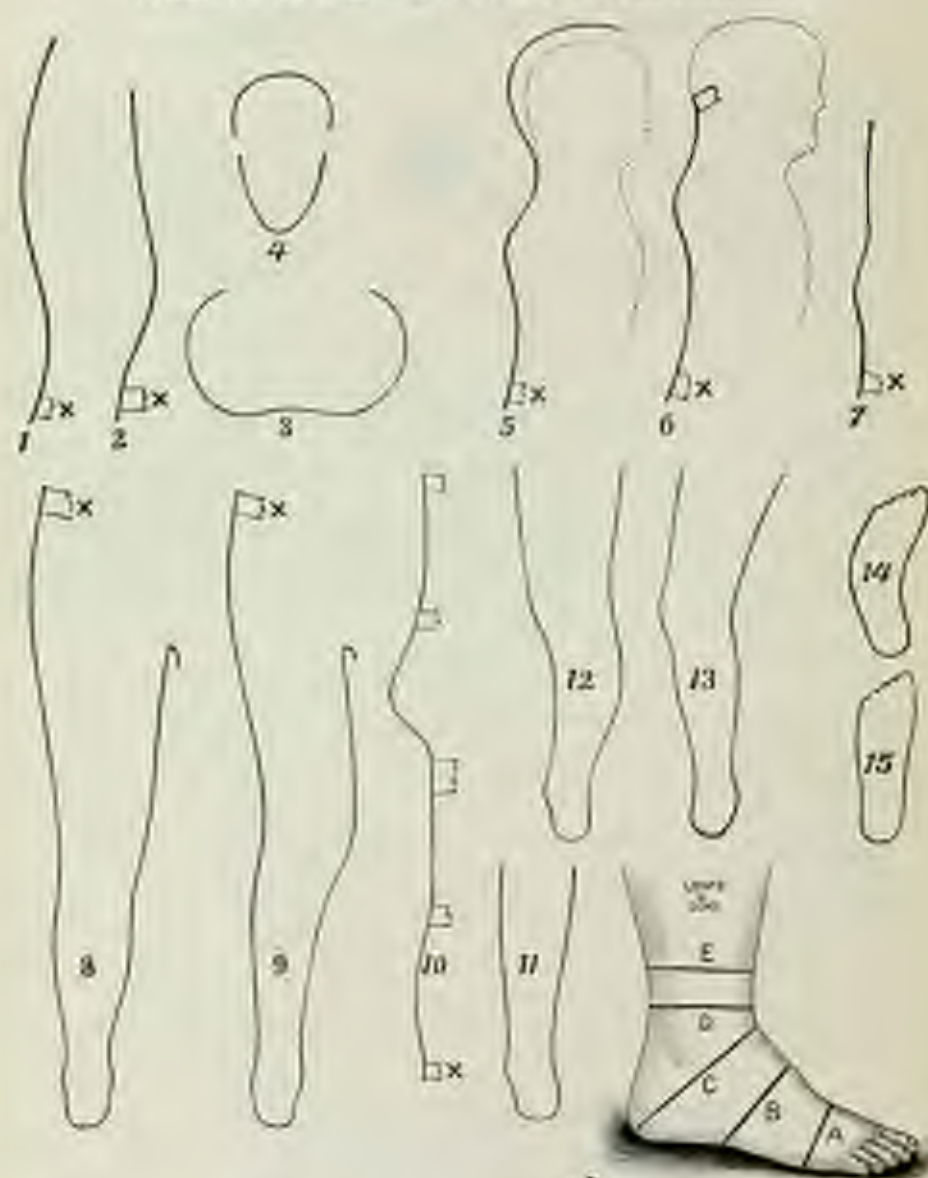
Measurements for Shoes as per Diagram.

- Circumference of ball of foot, *A*,
 " of instep, *B*,
 " over heel, *C*,
 " at ankle, *D*,
 " above ankle, *E*,
 Length of sole of foot, *F*.

Take also outline of the sole of the foot, by placing it on a sheet of paper and tracing a line around it. See also page 544.

Orthopedic Apparatus. =

OUTLINES AS THEY WILL APPEAR APPROXIMATELY.



To obtain outlines, use a strip of sheet lead about $\frac{1}{4}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe hammered flat, or a piece of pliable wire about $\frac{1}{4}$ inch thick. If inconvenient to procure, we shall be pleased to forward a suitable lead strip.

With each a strip make the moulds over the parts as directed above; then trace them on a sheet of paper and mark by letter "X" that side of outline which is towards the body, also mark top and lower ends.

Orthopedic Apparatus. ±



DIRECTIONS FOR OUTLINES REQUIRED:

1. Outline of back at side, about one inch from center, of spinal column, from one inch above trochanter major to superior border of scapula (13 to 16). Mark by letter X the side towards the body, also mark top and lower ends. *For Spinal Apparatus.*
2. Outline of side of body, from axilla (with arms down) to one inch above trochanter major (15 to 17). Mark X, also top and lower ends. *For Spinal Apparatus.*
3. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band. *For Spinal and Hip-joint Apparatus.*
4. Outlines of head around the chin and back of neck; state the exact circumference. *For Chin Piece.*
5. Outline over spine from one inch above trochanter major to top of head. *For Jary Matt.*
6. Outline over spine from one inch above trochanter major to occipital protuberance. Mark exact total length, also the first and last vertebrae involved (13 to 22). *For Head Rest.*
7. Outline of spinal column over curvature, from one inch above trochanter major to superior border of scapula (13 to 20). *For Posterior Curvature.*
8. Outline of leg. *For Hip Splint.*
9. Outline of leg. *For Knock-Knee and Paralysis Braces.*
10. Outline of body, posteriorly, from above ankle over buttock to a line about two inches below axillary line. Mark points: above ankle, middle of knee, below perineum, two inches below iliac crest, two inches below line of axilla. *For Posterior Hip Splint.*
11. Outline of leg. *For Wrist, Ankle Brace.*
12. Outline of leg. *For Fore Leg Brace.*
13. Outline of leg. *For Short Knock-Knee Brace.*
14. Outline of plantar foot.
15. Outline of normal foot.

When taking outlines for spinal apparatus have patient in a corrected standing position.

When taking outlines of legs, have patient lying on back or sitting, toes pointing upward. With a sufficiently long pencil, holding it perpendicularly, draw line around the limb. See above illustrations.

Orthopedic Apparatus.

7720.* ANKLE SUPPORTER FOR WEAKNESS IN ANKLE-JOINT.



7720

Weakness in the ankle-joint is a very common occurrence. It may be due to a strain or relaxation of the muscles, or to a sprain, or it may appear after fracture of the ankle-joint. It always necessitates a lateral support at the ankle.

The appliance as shown in the illustration is one of the most efficient devices, and is applied in those cases where the woven elastic ankle does not prove of sufficient supporting effect.

Made of either soft calf leather or heavy satin, adjustable by lacing in front, and strengthened by a number of laterally inserted, interchangeable steel stays, which are pliable enough to be shaped to the curve of the malleolus.

Measurements required, as per diagram on page 543:

1. Circumference at instep (1).
2. Circumference at ankle-joint (2).
3. Circumference above ankle-joint (3).

Price for one ankle supporter . . .

\$1.00; for a pair \$1.75 net

7721.* APPARATUS FOR SUPPORT OF WEAK ANKLE, AND FOR FRACTURE AT OR NEAR THE ANKLE-JOINT.

Because of occupation, injury, disease or some inherent weakness in the structures of the ankle and the arch of the foot, there may be a tendency to eversion of the foot with a sagging down of the bony arch. The individual is hindered in or incapacitated for his work and suffers intensely, until proper mechanical correction or support is afforded the defective parts.

In such cases we have found very effective an appliance as illustrated, to be worn as a means of sustaining the weakened and strained parts until such time when the normal muscle balance will be restored.

The apparatus is also especially adapted for after-treatment of fracture at or about the ankle-joint and of the bones of the tarsal and metatarsal articulation.

It consists of a stiff leather upper, which is carefully moulded over a cast of the foot and laced at front and back. The sides are reinforced by steel bars shaped in such manner as to avoid pressure on the malleoli. The arch of the foot is sustained by a plate, also riveted to the leather.

The brace is easily worn inside the ordinary shoe.

When ordering, a plaster of Paris cast of the foot is required, with the foot bent at an angle of about 100 degrees.

Price from \$10.00 to \$15.00



7721



7722-7723

TAPE MEASURES.

7722.*	Levin	5 feet	\$3.50 net
7723.*	"	6 "	60 "
7724.*	Steel	5 "	1.10 "
7725.*	"	6 "	1.30 "

All tapes are furnished in nickel-plated cases with spring and stop, and divided in inches and centimeters. The steel tapes are made of the finest tempered spring steel, $\frac{1}{4}$ inch wide.

See Information and Terms on page 542.

Orthopedic Apparatus.**7728.* APPARATUS FOR SUPPORT OF WEAK ANKLE.**

Quite frequently objection is made by ladies to wearing an ankle brace that has the lateral bars attached to the outside of shoe.

To overcome this objection, we make a single bar brace which can be worn inside of the shoe, and the presence of which can scarcely be detected. The bar, which is provided with a joint at the ankle, is attached to a steel insole, from which it extends to a few inches above the shoe top. Measurements for this brace must be taken carefully, and accurate outline given.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. State whether ankle turns in or out.
4. Right, left, or both feet.
5. Length from sole of foot to ankle-joint (1 to 2).
6. Length from sole of foot to middle of leg (1 to 4).
7. Circumference at middle of leg (4).
8. Outline of leg (fig. 11).
9. Send shoe or shoes to lace, one size wider than usually worn.

Price for one brace, according to size

Price for a pair of braces, according to size



7728

from \$8.00 to \$24.00
14.00 " 24.00

7730.* APPARATUS FOR SUPPORT OF WEAK ANKLE.

This style of brace is used extensively in the treatment of injuries and sprains of the ankle-joint and contiguous structures, affording as it does a substantial support to the weakened or diseased part until recovery can take place. Its lightness, combined with its strength, give both comfort and security. It presents several features which recommend it especially to both physician and patient.

It is constructed with two lateral steel bars extending to the upper part of calf, and provided with joints directly opposite the ankle-joint, thus permitting free function in the antero-posterior direction and favoring the return of normal muscle action, while thoroughly preventing any lateral motion or displacement. The broad band encircling the garter of the leg furnishes the counter support.

The apparatus may also be looked upon as a skeleton brace to which are added any required parts to meet certain conditions; for instance, a pad on the inner or outer side of the ankle-joint for corrective pressure; a stop-joint to limit motion in either flexion or extension; a leather legging to more effectually support the leg in a case of delayed union or weakness following fracture of one or both bones, etc.

The brace is riveted to the shoe through the stirrup, a small steel plate being placed inside the shoe for greater strength. Altogether, this will be found one of the most useful appliances in ankle-joint conditions that can be constructed, and we heartily recommend it for efficiency.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. State whether ankle turns in or out.
4. Right, left, or both feet.
5. Length from sole of foot to ankle-joint (1 to 8).
6. Length from sole of foot to below knee (1 to 6).
7. Circumference above ankle (1).
8. Circumference below knee (6).
9. Outline of leg (fig. 11).
10. Send well-fitting shoe or shoes to lace, or measurements and outline of foot.

as per directions on pages 543 and 544.

Price for one brace, according to size

Price for a pair of braces, according to size

Shoes are charged extra.



7730

from \$8.00 to \$24.00
14.00 " 24.00

Orthopedic Apparatus.

7732.* DR. G. G. DAVIS' STRAP FOR CLUB-FOOT AND MOLLOW FOOT.

Made of soft yet sufficiently strong leather. It is sewed strongly to the inside heel of the shoe, from where it passes within the shoe over the front of the ankle-joint and through a slot to a buckle attached to the heel at the outside of the shoe. In this manner the heel of the foot is held firmly in its proper place in the shoe. The pressure should be applied moderately and increased gradually.



After the shoe is then firmly laced, the strap is continued on the outside of the shoe over the instep and finally secured to a buckle at the inner aspect of the heel, the grip of the first buckle becoming released thereby.

The double turning of the strap as described is a most efficient means of preventing the rotation of the deformed foot and retaining it in the corrected position.

In valgus position of the foot the heel and sole of shoe should be raised on the inner side, in varus position on the outer side.

The strap is fitted to the ordinary laced shoe. In aggravated cases of bilques varus it is used in advantage in conjunction with the leg apparatus.

When ordering, send shoe or shoes of patient, or measurements and outline of foot as per directions on pages 543 and 544.

Price of strap and attaching into shoe	each \$2.00
Price of elevating heel and sole of shoe	" .75
Price of a pair of special shoes with straps, complete	from \$10.00 to \$15.00

7734.* DR. JAMES K. YOUNG'S IMPROVED CLUB-FOOT NIGHT SHOE.

The importance of the use of a night shoe for club-foot cannot be too strongly emphasized. In fact, it is quite essential that the gain derived from the wearing of the walking brace should be continued during the hours of sleep by the use of a suitably constructed appliance.

The device illustrated is constructed lightly and fulfills the purpose. It is used also after operation in connection with the club-foot walking apparatus.

It consists of a steel plate to which are attached two upright steel bars, with a band encircling the calf. The foot is placed in a leather shoe lined with a special double strap across the instep, which holds the deformed foot in corrected position.

Measurements and outlines required, as per diagrams and directions on pages 545, 546 and 547.

1. Patient's name (or sex).
2. Patient's age.
3. State whether Varus or Valgus.
4. State whether tendo Achillis is contracted.
5. Right, left or both feet.
6. Length from sole of foot to ankle-joint (1 to 2).
7. Length from sole of foot to calf (1 to 5).
8. Circumference at calf (1).
9. Circumference above ankle (3).
10. Measurements of foot (A to F).
11. Outline of leg (fig. 11).
12. Outline of foot (fig. 12).



7734

Price for one brace and shoe	from \$9.00 to \$15.00
Price for a pair of braces and shoes	" 16.00 " 25.00

See Information and Terms on page 542.

Orthopedic Apparatus. —

7735.* LENTZ'S SPLINT FOR TALIPES VARUS AND VALGUS, FOR INFANTS.

Experience has shown that considerable difficulty is encountered in applying club-foot shoes to infants; we have therefore constructed this simple, but effective splint of very light metal, with a joint at the ankle. Four straps are attached, one at the ball to press the foot down flat to the sole of the splint, one over the instep to depress any undue prominence of the arch, one just above the ankle joint to keep the heel down, and one around the calf of leg. A spiral spring is attached to a chain and is fastened near the toes upon the outside of foot, which elevates the toes and stretches the tendo-Achillis, thus drawing the foot to its natural position.

Suitable for infants of a few weeks to six months of age.

Measurements and outlines required, same as for No. 7734.

Price for one splint, \$7 00; for pair, \$12 00.



7735

7735.* LENTZ'S CLUB-FOOT APPARATUS FOR TALIPES VARUS.



7735. TALIPES VARUS.

The shoe is made of strong leather with a jointed steel sole allowing lateral motion. A strong spiral spring draws the foot outward by constant and elastic tension, which can be regulated by fastening the spring with twisted end to a button at the instep. The single outside upright bar, with hinged ankle joint, is fastened around the limb by a calf-band and so constructed that the screw at the ankle-joint forces the foot flat upon the floor, which foot in almost all cases is turned inward, as indicated by the sketch. The spiral spring attached to a chain and fastened near the toes upon the outside of the foot elevates the toes and stretches the tendo-Achillis, thus drawing the foot to a normal position; the contraction of the leather above the heel prevents the shoe from slipping off. The strap around the instep depresses any undue prominence of the arch of the foot, and within the shoe a broad tongue keeps the toes flat upon the sole.

On the opposite side of shoe there are two steel plates, one at the ball of foot, the other at the heel, to make counter-pressure; to the latter the instep strap is fastened. This apparatus resembles the regular shoe and shows no deformed appearance. It is preferable for children from about nine months to three years of age.

Measurements and outlines required, same as for No. 7734.

Price for one brace and shoe from \$11 00 to \$14 00

Price for a pair of braces and shoes 20 00 " 25 00



7735-7740

7740.* LENTZ'S CLUB-FOOT APPARATUS FOR TALIPES VALGUS.

For Talipes Valgus the same apparatus as for Talipes Varus is supplied, but with reversed action.

Measurements and outlines required, also prices, same as for Talipes Varus, No. 7735.



7740. TALIPES VALGUS.

Orthopedic Apparatus.

7742.* CLUB-FOOT WALKING APPARATUS.

This represents a club-foot walking shoe for children over two years of age. It is suited for the after-treatment of club-foot—when the foot can be pressed into proper position, but the muscles have not yet gained sufficient strength to keep the entire sole of the foot on the ground when walking with an ordinary shoe. The shoe is made to

fit to the toe. It has a steel plate between the leather soles. Attached to the inner side of sole is a steel ring which arches over the projection at the base of the great toe. A strap passes over the instep from the outside to the inside, and this, together with the ring over the ball of the great toe, serves to keep the sole of the foot at all times in contact with the sole of the shoe. To the shoe are attached two lateral bars of steel, with joints at the ankle and knee; well padded steel bands are secured below and above the knee to give proper support. If necessary, we also attach an artificial muscle, same as shown on apparatus No. 7744, to overcome any contraction of the tendo-Achillis. Made to lengthen between ankle and knee-joints to compensate for the growth of the child.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. State whether varus or valgus.
4. Right, left or both feet.
5. State whether tendo-Achillis is contracted.
6. Length from sole of foot to ankle-joint (1 to 2).
7. Length from sole of foot to middle of knee (1 to 7).
8. Length from sole of foot to middle of thigh (1 to 9).
9. Circumference above ankle (5).
10. Circumference at calf (5).
11. Circumference at knee (7).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).
14. Measurements of foot (A to F).
15. Outline of leg (fig. 13), but reaching to middle of thigh.
16. Outline of foot (fig. 14).

Price for one brace and shoe, according to size from \$15 00 to \$22 00
 Price for a pair of braces and shoes, according to size 28 00 " 38 00

7744.* CLUB-FOOT WALKING APPARATUS.

This apparatus is similar to No. 7742, but extends only to garter, and has the addition of an artificial muscle to overcome the contraction of the tendo-Achillis.

It is preferable only when the muscular portion of the knee-joint is sufficiently strong.

Measurements and outlines required, same as for No. 7742, including foot.

Price for one brace and shoe from \$12 00 to \$15 00
 Price for a pair of braces and shoes 20 00 " 28 00

7745.* APPARATUS FOR TALIPES EQUINUS.

This brace is constructed very similarly to the ordinary weak ankle apparatus, with the addition of an artificial muscle between calf band and a bracket extending from below the ankle-joint. This manner of construction renders the artificial muscle decidedly more effective, and at the same time much less liable to catch or trip the patient than if it were fastened to the toe part of shoe. The degree of tension is under easy control.

Measurements and outlines required, same as for No. 7742.

Send a well-fitting shoe or shoes to foot.
 Price for one brace, according to size, from \$3 00 to \$15 00.

Price for a pair of braces, according to size, from \$15 00 to \$25 00.

No shoes included.

See Information and Terms on page 542.

7745



7742



7744



Orthopedic Apparatus. +

7748.* IMPROVED GROSS' CLUB-FOOT ARTICULATED SHOE.

The accompanying illustration gives a correct idea of an apparatus for the treatment of talipes varus, talipes valgus and talipes equinus. The leading characteristic is the device used in the construction of the shoe part. This is made of light steel, covered with leather and well padded inside. The front part of the shoe is articulated, with the heel underneath the medio-tarsal joint. By this arrangement the front part of the shoe is first turned inward to receive the foot in its abnormal position, and then, by the adjustment of a screw which is turned by a key, it is turned outward, thereby gradually turning the foot around to its normal position. A spiral spring or strong elastic webbing attached at points above and below the ankle-joint is used to overcome the shortening of the tendo-Achillis in talipes varus and equinus.

The upper portion of the apparatus consists of two lateral bars, with thigh and calf bands, and is made to lengthen between the ankle and the knee-joints to meet the requirements of a growing child up to the age of walking or for right use.



7748

If the muscular power of the knee-joint is not defective the apparatus may be made without support above the knee.

Measurements and outlines required, same as for No. 7742.

Price for a single brace and shoe, extending above the knee, as per illustration from \$18.00 to \$24.00

Price for a single brace and shoe, without support above the knee from \$15.00 to \$22.00



7750

7750.* LENTZ'S CLUB-FOOT APPARATUS.

This apparatus is similar to No. 7748, but instead of having the screw for making lateral motion of the sole of the foot in a steel heel, it is placed on the outside of the shoe, as shown in the illustration, so that it can be easily cleaned and oiled, which is very important, as it is difficult to keep concealed screws in working order. The shoe is strongly made and of neat appearance and is well adapted for all cases of talipes varus.

Measurements and outlines required, same as for No. 7742.

Price for a single brace and shoe, extending above the knee, as per illustration from \$16.00 to \$19.00

Price for a single brace and shoe, without support above the knee from \$13.00 to \$16.00

When ordering a leg brace, always send outline of the limb, toes upward; see directions for taking outlines on pages 344 and 345.

PLEASE DO NOT CUT OR MUTILATE THIS BOOK.

In ordering, state number of apparatus and give directions required, and we can execute orders satisfactorily. Cutting out illustrations does not aid us any but destroys the page for future reference.

Orthopedic Apparatus. 4

7752.* APPARATUS FOR TALIPES CALCANEUS.

One of the most troublesome deformities in children is talipes calcaneus, which follows an attack of infantile paralysis. The destruction of the motor cells which control the muscles of the tendo-Achillis, gives rise to paralysis of that part, and because of the excess or unsupported action of the muscles of the anterior portion of the foot and leg the patient walks upon the heel and is also unable to propel himself forward from the toes or ball of the foot. This same condition may ensue from a tenotomy of the tendo-Achillis, with failure of the study of the tendon to unite by fibrous or connective tissue.

Many of these cases lend themselves readily to treatment by brace, and among the many forms devised none is more simple or more frequently efficient than the one shown herewith.

It is the skeleton ankle brace, fig. 7752, with the addition of a strong rubber muscle at the back. One end of this rubber muscle is firmly attached to the heel of the shoe, the other end is connected by strap and buckle to the top band of the brace.

Thus the artificial muscle is made tight according to the requirements of the case, and it will go far towards furnishing an efficient substitute for the paralyzed muscles.

Another very important factor is the extension of the heel of the shoe slightly beyond the posterior border, which induces a downward tendency of the toes at each step forward. This induces the work of the artificial muscle and aids much in restoring a nearly normal gait.



Measurements and outline required, same as for No. 7749.

Price for one brace, according to size

Price for a pair of braces, according to size

from \$9.00 to \$15.00

" 15.00 " 25.00

No shoes included.

7754.* APPARATUS FOR TALIPES CALCANEUS.

Illustration shows another form of apparatus for this deformity. It consists of two lateral steel bars with brackets above and below the ankle-joint, and with a spiral spring between them, which serves to depress the toes by extension.

Measurements and outline required, same as for No. 7749.

Send well-fitting shoe or shoes to use.

Price for one brace, according to size, from \$10.00 to \$16.00

Price for a pair of braces " 16.00 " 26.00

No shoes included.



See Information and Terms on page 542.

7754

REMOVABLE SHOES.

For the convenience and additional comfort to the patient we can make the shoe strap to disjoin, which permits the patient to use more than one pair of shoes to the one apparatus. See fig. 7750.

Add to price of each brace

\$2.50

Orthopedic Apparatus. +

SUPPORT FOR FLAT-FOOT.



Flat-Foot With Arch Supporter



Flat-Foot Without Arch Supporter



LENTZ & SONS



LENTZ & SONS



2750

LENTZ'S UNIVERSAL INSTEP ARCH SUPPORTER.

Flat-foot occurs from various causes; in adults it is mostly the result of being obliged to remain in a standing position for lengthy periods.

Pains of a rheumatic nature about the ankles, the heel, the arch of the foot, and occasionally the ball, disappear within a short time after wearing a support. The elasticity of the foot will be regained, and the whole contour of the instep and of the foot in general improved. When the arch of the foot has been broken down, either from overstraining or from a relaxed condition of the vascular structures, so that the entire sole touches the floor when standing, great relief and in many cases a cure follows the replacing of the bones and holding them in their normal position.

After years of experiments with various metals that would permit shaping into the required form and not give way under the constant strain in wearing, we have been successful with nickel-silver of an alloy manufactured for us especially for making these arch supports. It is a non-corrosive metal, having great resiliency, does therefore require no leather covering whatever.

This metal is hammered out of the sheet by hand to the correct shape of a normal arch. It involves the sole from the heel almost up to the ball of the foot and extends up snugly against the arch of the foot near the internal malleolus.

We have unprecedented success with these supports, as we have become experts in making them just right for each patient.

We can unhesitatingly recommend this arch supporter for all cases of flat-foot, from the incipient case which merely causes some pain, to the extreme case where the ankle turns in and the arch of the foot is completely broken down.

Our workmen have become so proficient by practice that we can guarantee to give relief and comfort in all cases if the patient can visit our office. Should it not be possible for the patient to visit us, we can almost invariably supply the suitable size and shape if a tracing of the ailing foot upon paper, together with the shoe that has been worn, are sent to us. These indicate to us the condition of the foot and serve as a guide for the corrections to be made. While a plaster cast may assist in some, we can usually succeed without it; the shoe that has been worn is a better guide than a cast.

As the foot improves we can occasionally increase the curve of the arch by hammering the metal to greater height until the arch is restored to its normal shape.

We have in stock the sizes and shapes most in demand. Suitable for youths, women and men.

For shoes sizes 2, 3, 4, 5

each, \$2.75; per pair \$5.00

For shoes sizes 6, 7, 8, 9, 10

" 3.25 " " 6.00

For special cases we can quickly make what is required at slight advance in price.

Please pay your order in full promptly and to us.

Orthopedic Apparatus.

SUPPORT FOR FLAT FOOT.

7758.* LEATHER FLAT FOOT INSOLE WITH ARCHED SPRING.

This supporter is made of a double leather sole with steel springs inserted.

It is made in both full lengths and half lengths; the latter gives all the support of the former, but does not take up space in front of the shoe.

We have in stock all sizes from children's to adults'

Price for children sizes 4 to 13	each, \$1.25; per pair \$2.50
Price for misses and women sizes 1 to 7	" 1.50; " " 3.00
Price for boys " 1 " 4	" 1.50; " " 3.00
Price for men " 5 " 11	" 2.75; " " 5.50



7760.* "FOOT HAZER" ARCH SUPPORTER.



7760

All sizes, for men and women

each \$1.75; per pair \$3.50

Made of tempered steel, nickel plated and covered with russet leather. The pressure is not severe, but continuous, and the support is self-adjusting, which is accomplished by the double-spring construction. The top plate is free at the front end, which allows it to slide forth on the under spring as the weight is put on.

7762.* "SILVERITE" ARCH SUPPORTER.



7762

All sizes, for men and women

each \$1.40; per pair \$2.80

Made of German silver, covered with russet leather. Like the "Foot Hazer," has without the self-adjusting spring.

7764.* FLEXIBLE CUSHIONED, NON-METALLIC ARCH SUPPORTER.



7764

All sizes, for misses and women

each \$2.40; per pair \$4.80

All sizes, for men

" 1.75; " " 3.50

This supporter is made entirely of leather, and fits the natural bridge of a normal foot; does not require any adjusting. It flexes with the foot, giving resiliency, but does not spring.

When ordering, state size of shoe worn and we can supply proper size of any of the above supporters.

Orthopedic Apparatus.

7766.* APPARATUS FOR OVER-RIDING OR HAMMER TOES

Consists of a stiff leather plate, reinforced by two thin steel strips, invisibly inserted. It extends from about the middle of foot to the toes, and is arranged with slits corresponding to the spaces between the toes. A soft linen strap is passed through these slits and over the contracted toe or toes and is fastened under the sole, tense enough to straighten the toes. The appliance is worn inside the stocking and kept in place by the same. To obtain satisfactory results it must be worn in a broad toe shoe.

When ordering, make outline of foot (see page 543), and mark the spaces between the toes; also send patient's shoe, which should be broad at the toes and comfortable.

Price of apparatus



7766

\$2.75

7768.* BIRD'S APPARATUS FOR BUNIONS.

Consists of a delicate lever of spring steel, with an oval ring in the center, which is provided with hinges at its anterior and posterior margins; it is attached to the instep by a laced band, and the toe to the extremity of the spring by a piece of webbing. It affords the articulation freedom of motion in the natural plane, whilst the malposition of the toe is gradually rectified by constant lateral traction.

Measurements and outline required, as per diagrams on pages 545 and 544:

1. Circumference at ball of foot (A).
2. Circumference at instep (B).
3. Outline of foot (fig. 13).

Price of apparatus

\$5.00 to \$7.00



7768

7769.* BUNION PROTECTOR.

This appliance is one of the latest inventions for the protection and cure of bunions and enlarged joints. It has proven most satisfactory and given the best of results. It is well padded, simple and light, and can be worn inside an ordinary shoe. Made for left and right foot, in two sizes, for men and women.

Price



7769

each, \$5.50; by mail, \$5.55, net

7772.* GERMAN FOOT POWDER.

Prevents irritation of the skin, and is recommended in all cases of sensitive and excessively perspiring feet. It is used to advantage in connection with the bunion protector, with the apparatus for bunions, for over-riding toes, etc.

Price per box, \$2.25; by mail, \$2.30, net

All articles illustrated are designated by a *.

Orthopedic Apparatus.

7774^a APPARATUS FOR BOW-LEG.

(GRAY VARIETY.)



7774

The mechanical treatment of bow-legs is very simple. 1. The bones in a softened condition, yielding under the weight of the body, must be assisted by rational help. 2. The arched bones must be restored to their normal condition. The apparatus illustrated answers the purpose admirably.

The support is given by two steel bars secured to a shoe and carried up as high as the thigh—joined at the ankle and knee to allow the patient perfect freedom of motion. They are kept in place by call and thigh bands.

Pads are placed respectively against the ankle and knee on the concave side of the limb, whilst a strap passed around on the highest point of the arc, inside of the outer bar, tightly fastened to the steel bar on the convex side, gradually compels the leg to become parallel with it.



Made to lengthen between the ankle and knee-joints, to compensate for the growth of the child.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545.

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to highest point of arc.
6. Length from sole of foot to knee-joint, inner side (1 to 2).
7. Length from sole of foot to knee-joint, outer side (1 to 2).
8. Length from sole of foot to middle of thigh (1 to 3).
9. Circumference above ankle (1).
10. Circumference at call (5).
11. Circumference above knee (6).
12. Circumference at middle of thigh (4).
13. Outline of limb (fig. 12).
14. Send well-fitting shoe or shoes to last.

Price for one brace, according to size.

from \$12.00 to \$16.00

Price for a pair of braces, according to size.

22.00 " 26.00

No shoes included.



7776

7776^a APPARATUS FOR BOW-LEG, WITH SINGLE BAR.

This apparatus consists of a single steel bar, with ankle and knee joints, placed on the inner side of the leg, where it is secured by well-padded bands around the calf and knee, which latter furnishes the proper support. A bifurcated band passes around the highest point of the arc, and is fastened at two points of the steel bar.

Made to lengthen between the ankle and knee joints, to compensate for the growth of the child.

Measurements and outline required, same as for No. 7774.

Send well-fitting shoe or shoes to last.

Price for one brace, according to size. from \$10.00 to \$15.00

Price for a pair of braces, according to size. 19.00 " 25.00

No shoes included.

See Information and Terms on page 542.

Orthopedic Apparatus. +

778.* APPARATUS FOR ANTERIOR CURVATURE OF THE TIBIA.

Consists of two steel bars, joined at the ankle and knee, securely fastened to the shoe, and held in place by calf and thigh bands. The deformity is corrected by passing a stout leather band around the lateral bars and is from over the arc of the curvature, and adjusting it tightly by means of a buckle.

The points of resistance are the heel of the shoe and the posterior portions of the bands at calf and thigh.

For children, the apparatus is provided with adjustable steel bars to lengthen between ankle and knee-joints.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle joint (1 to 2).
5. Length from sole of foot to highest point of arc.
6. Length from sole of foot to knee joint (1 to 7).
7. Length from sole of foot to middle of thigh (1 to 9).
8. Circumference above ankle (5).
9. Circumference below knee (6).
10. Circumference at middle of thigh (9).
11. Outline of limb, posterior (fig. 11), but reaching to middle of thigh.
12. Outline of limb, lateral, from sole of foot to knee.
13. Send well-fitting shoe or shoes to lace.

Price for one brace, according to size . . . from \$13 00 to \$17 00
Price for a pair of braces 23 00 " 27 00

779.* SAYRE'S ROTATING SPLINT FOR EVERSION AND INVERSION.

To accomplish this object I had constructed a brace with the additional attachment of a rotating screw, which fulfills the indication completely. It is the application of the same principle which I have for so long a time used in the outward rotation of the femur in the third stage of hip-disease. In applying this force for the outward rotation of the foot, in cases of club-foot, a light metallic rod or shaft is secured to the bottom of the shoe, in front of the heel, passed up on the outer side of the limb, and connected with a well-padded pelvic belt, having joints, of course, opposite the ankle, knee and hip. Just below the joint opposite the hip the shaft is divided into two sections, and at this point is an endless screw, placed transversely to the shaft. The screw is worked by a key, and is capable of producing rotation through two-thirds of the arc of a circle. There is a well-padded band at the calf and another band above the knee."—*Orthopedic Surgery and Diseases of the Joints.* LEWIS A. SAYRE, M.D.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both limbs.
4. Eversion or Inversion.
5. Length from sole of foot to ankle joint (1 to 2).
6. Length from sole of foot to knee joint (1 to 7).
7. Length from sole of foot to middle of thigh (1 to 9).
8. Length from sole of foot to trochanter major (1 to 12).
9. Length from sole of foot to iliac crest (1 to 15).
10. Circumference above ankle (5).
11. Circumference at calf (6).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).
14. Circumference at iliac crest (15).
15. Outline of limb (fig. 8).
16. Send well-fitting shoe or shoes to lace.

Price of brace for one limb from \$30 00 to \$40 00
Price of brace for both limbs 45 00 " 55 00

7792.* ROTATING SPLINT FOR EVERSION AND INVERSION.

This Splint is in all respects the same as Sayre's Splint, but has a plain screw for making rotation, instead of the endless screw.

Price of brace for one limb, from \$25 00 to \$35 00; for both limbs, from \$40 00 to \$50 00.



Orthopedic Apparatus.

7734.* APPARATUS FOR KNOCK-KNEE.

(GENU VALGUM.)

Knock-knee is an inward inclination of the knee, caused by a relaxed and elongated condition of the internal lateral ligament of the knee-joint, and increased by the superincumbent weight of the body. To relieve this deformity, numerous mechanical contrivances have been constructed and employed. The one represented is the simplest and most convenient in slight cases for the patient to wear. It consists of two lateral steel bars attached to the shoe, and reaching to the upper third of the thigh. The bars are connected with calf and thigh bands, and provided with joints corresponding with the natural articulations to allow locomotion. The knee is secured in its normal position by a well cushioned pad.

Measurements and outlines required, as per diagram and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to knee-joint (1 to 2).
6. Length from sole of foot to middle of thigh (1 to 0).
7. Circumference above ankle (3).
8. Circumference at calf (5).
9. Circumference at middle of knee (7).
10. Circumference at middle of thigh (9).
11. Outline of limb (fig. 13).
12. Send well-fitting shoe or shoes to lace.

Price for one brace, according to size from \$12 00 to \$35 00
Price for a pair of braces, according to size 22 00 20 00

No shoes included.



7734



7736.* APPARATUS FOR KNOCK-KNEE.

(GENU VALGUM.)

For the treatment of knock-knee this apparatus is the most effective one in extreme cases. It consists of two lateral steel bars, with ankle-, knee- and hip-joints, and extending from the back of strong shoes to a pelvic band which encircles the body. This band is made in two halves to admit of easy adjustment. Leather caps are placed at the inside of the knee-joints and fastened tightly to the steel bars on the outside. The calf and thigh bands in connection with the knee caps will gradually bring the knee-joints into correct position.

Measurements and outlines required, as per diagram and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right, left, or both legs.
4. Length from sole of foot to ankle-joint (1-2).
5. Length from sole of foot to knee-joint (1-2).
6. Length from sole of foot to trochanter major (1-12).
7. Length from sole of foot to iliac crest (1-15).
8. Circumference at calf (5).
9. Circumference at middle of knee (7).
10. Circumference above knee (8).
11. Circumference at middle of thigh (9).
12. Circumference at iliac crest (15).
13. Outline of limb (fig. 13).
14. Send well-fitting, strong shoes to lace.

Price of apparatus for both legs, according to size from \$28 00 to \$40 00
Price of apparatus for one leg, according to size 20 00 25 00

7738. APPARATUS FOR KNOCK-KNEE.

In most respects same as fig. 7736, but extending only to the upper third of thigh. Measurements required, same as for No. 7734; however, give length from sole of foot to upper third of thigh (1-10) and circumference at that point (10).

Price of apparatus for one leg, according to size from \$20 00 to \$25 00
Price of apparatus for both legs, according to size 10 00 25 00

See Information and Terms on page 542.



7736

Orthopedic Apparatus. +

779.* APPARATUS FOR TUBERCULOSIS IN ANKLE-JOINT, AND FOR FRACTURE OF LOWER LEG OR FOOT.

We illustrate herewith a form of brace as devised by Hasting, adapted for those cases which require a large degree of support, and also where the patient demands an appliance which should not show.

The steel frame-work is similar to that of brace fig. 7738, but differs from it in that it is fitted close to the foot and leg. It is worn inside the shoe and does not attach to it. This frame is supported by a leather legging, which is moulded over a cast of the leg and lined anteriorly. It fits close to the skin and affords the same absolute support as a plaster of Paris cast. The foot piece is constructed similarly and is securely attached to the stirrup of the brace.

The legging can be adjusted to changes in the leg by means of set-screws and slots in the upright bars, this feature being of great importance in many cases. The reinforcement by steel strips at back of the legging is another feature which adds to the efficiency of the brace.

In cases of delayed union or non-union following fracture of the leg bone, or of pronounced instability of the ankle, or of disease or extensive injury to the foot or ankle, where it is advantageous to permit the patient to walk in complete protection, were afforded to the affected part, this brace will produce the desired effect. As it is not attached to the shoe, it may be used day and night, and the fixation maintained constantly.

The normal antero-posterior motion at the ankle may be permitted in full to prevent much of the secondary muscle atrophy, as it may be limited by means of a stop-joint to meet the requirements of certain cases.

An important feature of all our braces is the accurate adjustment of the joints to those of the parts to be supported, hence the better preservation of the function by their united action.

When ordering this apparatus send plaster of Paris cast.

Price . . . from \$25.00 to \$45.00



779.

7791.* DR. G. G. DAVIS' BRACE FOR FLAT-FOOT AND INFANTILE PARALYSIS.



7791

This apparatus was devised for a variety of uses, principally, however, for the support of flat-foot and for such cases of infantile paralysis in which the dropping of the toes is a prominent symptom.

It consists of a metal sole-plate and an upright steel bar reaching to garter, where it is secured by a band. It is intended to be worn inside the shoe.

The special feature in the construction of this apparatus is the peculiar bend of the upright bar. The same is fitted closely to the leg and curves below the internal malleolus upward between the tibia and the tendo Achillis. This manner of construction renders the apparatus most serviceable and neat in appearance.

An instep strap may be added to retain the foot in the desired position, or a strap may be provided at the joint to allow the foot to be flexed to any desired extent.

An ordinary shoe can be worn over this apparatus.

Measurements and outline required, same as for No. 7738.

Send well-fitting shoe or shoes to lace.

Price for one brace, according to size \$12.00 to \$25.00
 Price for a pair of braces, according to size 20.00 " 25.00

Orthopedic Apparatus.

7800.* MARSH'S KNEE CLAMP TO PREVENT DISLOCATION OF THE SEMILUNAR CARTILAGE.



It consists of a metallic fenestrated cap, well padded, which exerts pressure directly on the lateral surfaces of the knee by means of a spring passing around the popliteal space. This is a very effective and practical appliance.

Directions required:

1. Right or left knee.

2. Circumference at knee-joint.

Price \$5 00

7801.* DR. J. WILLIAM WHITE'S ELASTIC KNEE CAP TO PREVENT SLIPPING OF THE SEMILUNAR CARTILAGE.

This knee cap is made of strong silk elastic and provided with a split jointed steel bar on each side; these two bars are secured in strong leather pockets sewed to the elastic. It is an excellent support for slight cases; it protects the knee, to a certain extent, from twisting, can be worn with comfort and is very easily adjusted or removed. Usual length from 9 to 30 inches.

Measurements required, as per diagram on page 545:

1. Circumference at calf (5).
2. Circumference at garter (6).
3. Circumference at knee (7).
4. Circumference above knee (8).
5. Circumference five inches above knee.
6. State whether for right or left knee.

7. Give outline of knee by moulding a lead-strip over lower and outer sides of knee and making tracing of these moulds on paper.

Price

\$7 00 to \$8 00



7801



7804

7804.* DR. J. WILLIAM WHITE'S LEATHER KNEE SUPPORT.

This apparatus is intended to prevent dislocation of the semilunar cartilage in more pronounced cases.

It consists of two strong leather bands above and below the knee, reinforced by two semicircular steel bands which give the apparatus great firmness, and connected by two lateral jointed steel bars.

Measurements and outlines required, same as for No. 7802.

Price

from \$14 00 to \$18 00

NOTICE.

As numerous and various orthopedic apparatus are constantly brought forward and suggested in medical journals as well as in text books, it is quite impossible for us to show them all in our catalogue; we would, therefore, respectfully suggest that physicians, in ordering apparatus which we do not show in the catalogue, should state the name and date of the journal or other publication in which they are described or illustrated.

Orthopedic Apparatus. -

7506.* KNEE CAP FOR AFTER-TREATMENT OF FRACTURED PATELLA, AND FOR INFLAMMATION OF THE KNEE-JOINT.

Authorities on surgery emphasize that great care must be taken to prevent rupture of the newly formed union, which so often takes place after recovery of the patient from fractured patella. For the purpose of guarding against such occurrence we make the knee-cap shown in illustration. It is for such cases where immobility of the joint is required, and to be effective it should extend from the upper third of thigh to the middle of lower leg.

It is made of hardened leather or of felt, lined with chamois and laced at the sides; to allow of ventilation it is usually perforated. An opening is provided to free the patella from undue pressure, but the upper and lower borders of the opening should fit close to the newly united patella; this opening is filled out with some soft material to prevent any injury to the patella.

This knee-cap is also very successfully used in the treatment of diseases of the joint where absolute rest is demanded.

For making this apparatus a plaster of Paris mould is required, which should extend from the middle of leg to middle of thigh.

Price from \$12.00 to \$15.00

**7508. KNEE-CAP FOR AFTER-TREATMENT OF FRACTURED PATELLA.**

Similar to No. 7506 and is of good service in such cases where a fairly substantial union has been the result of the general treatment.

Made of soft leather or heavy cotton, either to lace or to buckle. Light steel springs are inserted at the sides and at the back. If desired, we attach two small crescent shaped pads to the inside above and below the patella. An opening is cut over the patella and same is covered with soft chamois.

This knee-cap will allow the knee some mobility.

Measurements and outlines required, same as for No. 7506.

Price from \$5.00 to \$8.00

7509. DR. JAMES K. YOUNG'S KNEE-CAP FOR DISPLACEMENT OF SEMILUNAR CARTILAGE AND SPRAINED LIGAMENTS.

Identical with No. 7508, but has in addition lateral steel hinges, with or without stop at the knee-joint, as the case may require. An opening is cut over patella and popliteal space, and same is covered with soft kid leather.

Measurements and outlines required, same as for No. 7506.

Price from \$10.00 to \$12.00

7510.* DR. G. G. DAVIS' APPARATUS FOR DISLOCATION OF THE PATELLA.

A simple but very efficient appliance to arrest the patella in its normal position and prevent its dislocation. It consists of a soft circular ring made of rubber tubing and covered with chamois; a welding strap is provided posteriorly for proper adjustment.

Measurement required: Circumference at knee (2).

Price \$1.00



See also Section XVII for Splints for Fracture of the Patella.

All articles illustrated are designated by a *.

Orthopedic Apparatus.

7812.* MARSH'S APPARATUS FOR CHRONIC DISLOCATION OF THE PATELLA.



This apparatus consists of two lateral steel bars extending from the middle of the thigh to the middle of the leg, and provided with joints at the knee. It is fastened to the limb by well padded thigh and calf bands. The patella is secured in its normal position by straps above and below it, and receives further adequate lateral support by the joints and band passing around the popliteal space.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex). 2. Right or left limb.
3. Length from middle of leg to knee-joint (1 to 7).
4. Length from knee-joint to middle of thigh (7 to 9).
5. Circumference at middle of leg (4).
6. Circumference at knee-joint (7).
7. Circumference at middle of thigh (9).
8. Outline of limb from middle of leg to middle of thigh (1 to 9).

Price from \$12 on to \$15 on

7814.* SAYRE'S APPARATUS FOR INFLAMMATION OF THE KNEE-JOINT.

It consists of two steel bands or collars, about an inch wide, encircling the limb—the one above the ankle, the other at the upper third of the thigh—which admit of adjustment by means of a hinge and slide, and which may be locked at any given point by turning the nuts with the key fitted for this purpose. They are connected on either side by an extension rod of the rack and pinion (or of screw) construction.

After applying the strips of adhesive plaster, the connecting rods are extended simultaneously by the keys of the rack and pinion construction (or by turning the screws if made in the latter manner). Thus the articulating surfaces of the tibia and femur are separated from each other, and the limb brought nearly straight until pressure can be made on the foot without pain. A roller bandage is applied over the foot and leg up to the apparatus, to prevent edema.

A large, coarse sponge should be placed in the popliteal space, and other pieces of sponge completely surround the knee-joint; these should be

secured by a tight roller bandage and then saturated with cold water. The cold water not only reduces the inflammation of the joint, but promotes the absorption of the deposits that generally occur around and in a joint in this condition of chronic inflammation.

Measurements required, same as for No. 7812.

Price, according to size from \$18 on to \$22 on

See Information and Terms on page 542.

At slight advance in price we can make any of the leg apparatus with "concavo-convex" bars; the upright bars forged in dies concave inside (against the limb), and convex outside; the bearing bands at ankle, calf and thigh forged half round; leather nickel-plated.

Braces made in this manner are taster in appearance, slightly lighter in weight, yet stronger than regular style, and it can truthfully be said that they represent the acme of perfection of the orthopedist's art, pleasing to the most fastidious person.



Orthopedic Apparatus. +

7816.* APPARATUS FOR SYNOVITIS OF THE KNEE-JOINT.

The function of this apparatus is to keep the knee for a time in a fixed position, and as the case requires it to gradually allow some motion. This is obtained by the mechanism provided at the knee-joint, which consists of a semi-circular screw running through a bracket projecting from the bar below the joint; on each side of this bracket a screw-nut is provided to either fix the joint completely or give it any desired allowance of motion by separating the nuts.

Two broad leather bands, well padded, one above and one below the knee, will hold the leg firmly to the brace. The upper band should fit closely around the thigh to take the weight off the knee-joint to a certain extent.

This appliance has been employed in a great number of cases with the very best results.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Right or left limb.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to knee-joint (1 to 7).
6. Length from sole of foot to middle of thigh (1 to 9).
7. Length from sole of foot to upper third of thigh (1 to 10).
8. Circumference above ankle (5).
9. Circumference at calf (5).
10. Circumference at garter (6).
11. Circumference at middle of knee (7).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).



7816

14. Circumference at upper third of thigh (10).

15. Outline of limb (fig. 8).

16. Send well-fitting shoe to fact, or measurements and outline of foot as per directions on pages 543 and 544.

Price of apparatus, according to size, \$20.00 to \$24.00.

No shoes included.

7815.* APPARATUS FOR SYNOVITIS, AND FOR AFTER-TREATMENT OF FRACTURED PATELLA.

This apparatus is similar to the one described under No. 7816, but is simplified in its construction.

It is light in weight, and is designed for such cases in which it is desired to prevent movement at the ankle-joint when patient is walking, or where mobility at the knee shall take effect gradually.

To the lateral bar just opposite the articulation is securely attached a rotary steel plate which is controlled by a set-screw and constructed in such manner as to give the desired allowance of motion at the knee-joint. The padded leather bands around garter of leg and the thigh are narrow and less cumbersome than those of the former apparatus.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to fact.

Price of apparatus, according to size, from \$20.00 to \$25.00.

No shoes included.



7815

Orthopedic Apparatus.

7825.* TRACTION KNEE SPLIT FOR HEY'S JOINT AND FOR DISLOCATION OF THE SEMILUNAR CARTILAGE.

The purpose of this brace is to prevent every movement at the knee and ankle except antero-posterior motion, in short, to turn the knee into one hinge-joint, removing entirely the motion of the ribs. Dr. Newton M. Shaffer writes: "The important part next to its simple large mechanism is the joint at the knee, which is so arranged that it will stop the extension just at the point of comfort to the patient, and this point of comfort represents an absence of strain upon the knee-joint ligaments. This is very essential to the cure of the trouble, for experience proves that if the strain is taken from the ligaments, they will shorten and the wobbly knee will gain stability and strength in a few weeks."

The brace is connected with the shoe, pointed at the ankle and knee, and is provided at calf and thigh with semi-circular steel bands, which connect firmly the lateral bars and retain the joints of the apparatus in perpendicular position. A small leather band at calf and a broad padded cuff at thigh hold the brace firmly to the leg, while two adjustable straps located below and above the knee add the proper support at that position.

A knee-pool provides for a moderate pressure on the condyle. It is important that the center of this pool should be opposite the true center of motion, and that it should rest snugly against the condyle without undue pressure.

The principal strength of the apparatus is in the rod which connects the knee part with the stirrup; the rod is preferably at the outer side of the leg.

An interchangeable ankle-joint admits of easy removal or application of the apparatus, and enables the wearer to use different shoes on the same brace.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to face.

Price of apparatus, according to size . . . from \$25 00 to \$35 00



7825

most naturally assumed by the joint during the progress of the inflammation, the limb is found in this posture in the majority of cases. This occasions great difficulty in walking because of the decided shortening which it produces, and it becomes necessary to straighten the limb by some means, so as to restore the symmetry of the limbs and to prevent spinal deformity.

Certain of these cases lend themselves readily to correction by means of braces, when the form of ankylosis is other than bony and the case has been carefully and accurately ascertained. The contraction will usually yield to pressure which, though slight, is kept applied constantly.

Of the many forms of appliances devised to correct the flexion, there is none more simple and at the same time so entirely effective as the one herein illustrated. The general form of the brace is that of the ordinary leg brace, and the extension at the knee is accomplished by means of a screw. The manner in which the same is attached to the brace is in marked contrast to the Strohmeyer Screw, so commonly used, and which is placed at back of the knee. Here it is placed at the side, close to the leg, and neatly and securely attached along one of the spread bars.

If there exists a pronounced tendency of the knee to push forward, it is necessary to limit it by the addition of a leather cap backed across the front and around the side bars.

Measurements and outline required, same as for No. 7816. Send well-fitting shoe to face.

Price of apparatus . . . from \$25 00 to \$35 00

See Information and Terms on page 542.

7822.* APPARATUS FOR ANCHYLOSIS OF THE KNEE JOINT.

Ankylosis of the knee is frequently a sequence of injuries and diseases of that part. The position of flexion being



7822

Orthopedic Apparatus. +**524 * APPARATUS FOR PARTIAL PARALYSIS OF THE THIGH.**

One of the most troublesome conditions to treat successfully is weakness or paralysis of the extensor muscles of the thigh, a condition which may incapacitate the patient partially or entirely from walking and interfere seriously with his work. Whether due to infantile paralysis, hemiplegia, fracture of the patella with wide separation of the fragments, rupture of the patellar ligaments, or separation of the tubercle of the tibia, there exists inability to securely extend the leg, and instability after extension has been accomplished.

Many different forms of appliances have been devised to meet this emergency, some of which though efficient being so complicated and so cumbersome as to be entirely impractical. The one illustrated herewith possesses several advantages, which recommend it where no severe strain is encountered.

The four elastic bands acting between the center of the knee anteriorly and each end of the lateral bars take the place of the extensor muscles, and not only serve to extend the leg, but also to prevent it when extended from flexing and letting the patient fall. The steel spring in front of the knee gives both flexion to the rubber muscles and increased stability to the brace, and yet leaves the knee entirely free from pressure.

The appliance is lighter than the ordinary leg brace and is made strong and durable. The thigh and calf bands lace firmly and maintain the apparatus in proper position.



When ordering this apparatus, a plaster of Paris mould is required.
Price from \$24.00 to \$35.00

525 * LOCK-JOINT APPARATUS FOR PARALYSIS OF THE LEG AND FOR SUPPORT AFTER RESECTION OF THE TIBIA.

This apparatus is intended for paralysis of one limb. The side bars are forged convex, and the joints made somewhat stronger than for those cases where the patient has control of the knee-joint. The bands at side and calf are made of strong but soft leather. Below the knee-joint, extending from the stirrup, there projects a bracket to which is attached a strong adjustable elastic strap acting as an artificial muscle.

A similar device can be arranged at the knee-joint, also with a strong elastic strap, working upon eccentric levers, and leaving the knee entirely free from all pressure.

An improved, automatic lock arrangement at the knee-joint keeps the limb stiff while walking, and permits of flexion at will.

When the brace is to be worn after resection of the tibia, the band at calf is either made broader or supplemented by a second one above the ankle, in order to give all possible support.

Measurements and outlines required, same as for No. 524.

Send well-fitting shoe to care.

Price of apparatus as illustrated, according to size from \$24.00 to \$35.00



Orthopedic Apparatus. +

7818.* LOCK-JOINT APPARATUS FOR PARALYSIS OF THE KNEE AND ANKLE-JOINTS.

Divided for paralysis of leg standing where there is no control of the lower extremity. It consists of two lateral bars hinged at the knee and ankle-joints, with well padded bands at the garter, above the knee and at upper third of thigh. It is provided with a lock-joint to hold the knee straight in walking.

This style of lock is preferable for ladies, as it can be worked from the front, outside of the dress, by merely pressing the hand on the lever, when the wearer wishes to sit down and flex the knee; when wearer rises and straightens the limb it will lock itself automatically.

A knee cap is also provided, attached to the side bars, which helps to hold the knee straight. When necessary, pads are placed at the ankle and knee-joints.

An artificial muscle can also be attached to shoe, adjustable at the side bar, to lift up the toes.

Measurements and outline required, same as for No. 7816.

Send well-fitting shoe to lace.

Price, according to size from \$24 00 to \$35 00



7818

7820.* APPARATUS FOR PARTIAL PARALYSIS OF ONE LIMB. (Hemiplegia.)

This apparatus is made for hemiplegia affecting the limb as far as the hip-joint, and answers both as a support and in aiding the restoration of the mobility in cases of walking palsy, or when certain groups of muscles become atrophied, losing their power to perform their functions. It excites the muscles to action, aiding them by artificial substitutes made of elastic, which are placed at the brace so as to gently exercise the affected parts.

We attach these artificial muscles for flexion or for extension, as the case may demand.

Measurements and outline required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. Right or left limb.
4. Length from sole of foot to ankle-joint (1-2).
5. Length from sole of foot to knee-joint (1-7).
6. Length from sole of foot to perineum (1-11).
7. Length from sole of foot to trochanter major (1-12).
8. Circumference above ankle (3).
9. Circumference at garter (6).
10. Circumference at knee (7).
11. Circumference above knee (8).
12. Circumference at middle of thigh (6).
13. Circumference at upper third of thigh (10).
14. Circumference at iliac crest (13).
15. Outline of limb (fig. 9).
16. Send well-fitting shoe to lace.

A general description of the case is necessary to guide placing the artificial muscles at the proper places.

Price of apparatus, according to size \$25 00 to \$30 00

7822.* APPARATUS FOR PARTIAL PARALYSIS OF BOTH LIMBS. (Paraplegia.)

Identical with No. 7820, except that it is made for both limbs.

Price of apparatus, according to size \$45 00 to \$75 00

See Information and Terms on Page 542.

All articles illustrated are designated by a *.



7820

Orthopedic Apparatus.

7534.* COMBINED APPARATUS FOR SPINAL DEFORMITY, PARALYSIS AND PARAPLEGIA.

We recommend this apparatus highly and feel assured that it will be found available in various cases of deformity of the spine with concomitant loss of sustaining power of one or both legs, in cases of paralysis, and in cases of lateral curvature of the spine due to shortening of the leg following hip-joint disease or hemiplegia. According to the requirements of the case the apparatus can be modified in its construction.

The illustration shows the leg braces connected detachably with the spinal apparatus; either can be worn independently.

In cases of paraplegia or hemiplegia where the spine is not affected, the apparatus is carried up to the hip joint, a soft padded band around the pelvis. Elastic straps are attached to aid the restoration of the mobility of the muscles or as artificial substitutes of the muscles for flexion or extension.

The artificial muscle attachment at the knee-joint as supplied in this brace is the same as shown in Fig. 2862. We wish to call special attention to it as an innovation upon the old style which caused undue pressure upon the patella and the surrounding tissues. The elastic straps work upon eccentric levers and rest on a semi-circular steel spring which is interchangeably attached to the lateral uprights at the point of motion; thus the knee is left entirely free from all pressure, and after the leg is bent by the flexors, extension of the leg upon the thigh occurs promptly.

The apparatus is made with an automatic lock device at the knee-joint, or with other additions and modifications as may be found necessary.

Measurements and outlines required.

For leg braces, same as for No. 7535.

For spinal corset, same as for No. 7535.

Send well-fitting shoes to maker.

Price of apparatus for spine and one leg . . . \$65.00 to \$75.00

Price of apparatus for spine and both legs . . . 90.00 " 125.00

Price of apparatus for one leg only . . . 35.00 " 50.00

Price of apparatus for both legs only . . . 45.00 " 75.00

According to size.

Shoes and elevation charged extra.



7534



7536

7535.* LOCK-JOINT APPARATUS FOR PARALYSIS.

In most essentials the apparatus here illustrated is the same as No. 7534.

The lock-joint is of somewhat different construction, being operated at the side instead of from the front of brace; it is not conspicuous when worn with trousers, therefore better suited for the male sex.

In such cases where shortening of the limb exists, a shoe is furnished with leather covered cork sole, to compensate for the shortening of the leg.

Measurements and outline required, same as for No. 7534 and for shoe as in directions on page 343.

To determine the height of the elevation, have the patient (both feet bare) stand erect; place blocks under the short foot and the shoulder and pelvis are in horizontal lines; then measure the thickness of these blocks, which will be the height required for the elevation. (See also No. 7534).

Price of apparatus, according to size . . . from \$24.00 to \$35.00

Shoes and elevation are charged extra.

An important feature in all our braces is the accurate approximation of the joints to those of the parts to be supported; hence we accomplish better the preservation of the natural function.

Orthopedic Apparatus. —**789^b LENTZ'S IMPROVED APPARATUS FOR PARALYSIS.**

It is in general the same as apparatus fig. 789^a. The lock-joint is located on the side instead of the front of the brace and operates automatically. In such cases where a shortening of the leg exists, an inside elevation can be made to which the brace is fastened, and it may be incorporated into a shoe as shown in this illustration.

Because it is worn with a regular stock shoe, the apparatus is decidedly more in appearance than one with the commonly used high cork shoe, although at the start it often demands some efforts by the wearer to keep the foot in the required position.

Measurements and outlines required, same as for No. 789^a; and for foot enclosure, as per directions on page 543.

For instructions to ascertain height of elevation, see No. 789^b.

Send well-fitting shoe as lace.

Price, including inside elevation, but regular shoe furnished; according to size from \$50.00 to \$75.00.

794^b APPARATUS FOR SHORTENED LEG, WITH ARTIFICIAL FOOT.

The appliance is provided with an artificial foot placed at the proper distance to supply the deficiency. A steel plate, forming a foot to the elevation, serves as a comfortable shelf for the foot of the shortened leg to rest upon. The upper structure of the apparatus consists of two lateral steel bars, jointed at the knee and extending to about the upper third of thigh, where an adjustable stiff leather cuff holds it firmly to the limb.

The motion in the knee is limited, the knee remaining capable of flexion, but rendered incapable of extension beyond the angle represented in the illustration. When standing or walking the limb is brought to the point of greatest extension, as the jointed bracket at side stops beyond a straight line and holds the leg immovably at the knee.

When the wearer sits down the bracket releases by being pushed against the seat of the chair and allows the knee to flex. A semi-circular leather strap is additionally provided, attached to the very ends of the upper radial arm of the bracket, to assist this lock-device with the hand. This manner of construction permits the wearer to walk safely with rigid knees, and to bend the knee at will when sitting.

A soft padded knee cap secures a comfortable support to the knee when walking.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. Right or left leg.
4. Length from sole of foot to ankle-joint (1 to 2).
5. Length from sole of foot to middle of knee (1 to 7).
6. Length from middle of knee to perineum (7 to 11).
7. Circumference at garter (6).
8. Circumference at middle of knee (2).
9. Circumference above knee (8).
10. Circumference at middle of thigh (6).
11. Circumference at upper third of thigh (10).
12. Distance from heel to floor, when standing erect.
13. Distance from toes to floor, when standing erect.
14. Outline of flesh, posterior (fig. 81).
15. Outline of flesh, lateral, showing angle of flexion.

Send well-fitting shoe as lace.

Price, according to size.

See Information and Terms on page 542.

794^b

\$70.00 to \$95.00

Orthopedic Apparatus

7842* APPARATUS FOR THE SUPPORT OF WEAK LEGS.

This apparatus is for the support of weak legs, when, by reason of relaxed joints, softening of the osseous structure, or partial paralysis, they cannot quite bear the weight of the body, but where the muscles still retain some power to perform their respective functions. Light steel bars are secured to the shoes and carried up the sides of the legs to the pelvis. They are provided with joints corresponding to the natural ones and are secured to the calf, thigh and pelvis by well padded bands. When necessary, pads are placed at the ankle- and knee-joints.

Measurements and outlines required, same as for No. 7838.

Send well-fitting shoes in box.

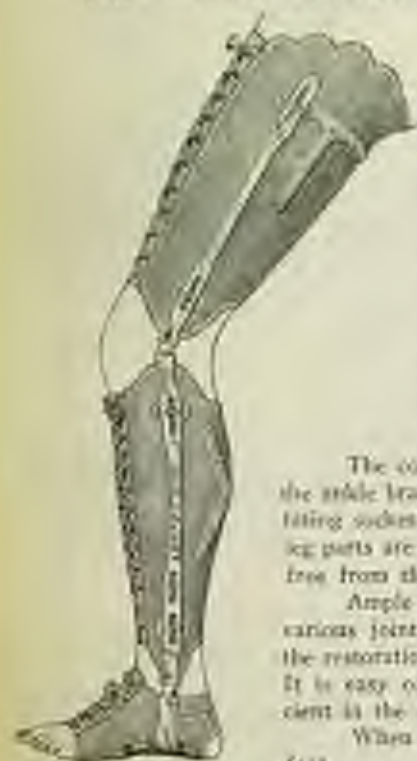
Price of apparatus for both legs, according to size \$35 00 to \$50 00

Price of apparatus for one leg, according to size 25 00 " 45 00

No shoes included.



7844* APPARATUS FOR THE LEG, AS DESIGNED BY HESSING.



To secure the desired support for the foot, ankle or knee, it is oftentimes advantageous or necessary to extend the brace to include the thigh, whereas in fractures of the upper half of the tibia and fibula, or in close proximity to the knee-joint, it is quite essential that the applied splint include the thigh as well as the leg and foot.

In fig. 7790 we have shown and described one of the most efficient braces for the foot, ankle and lower part of the leg, with this appliance as a foundation, the picture illustrates its application as used by Hessing to meet the requirements of conditions higher up (see also fig. 7890).

The construction of the thigh portion is the same as of the ankle brace, and absolute support is afforded by the close-fitting sockets which are laced about the parts. The thigh and leg parts are adjustable to changing needs, and the brace being free from the shoe, may be worn constantly, if desired.

Ample allowance is made for normal movement at the various joints, hence the appliance will be found to promote the restoration of free function in a most satisfactory manner. It is easy of adjustment, neat in appearance, and most efficient in the cases in which it is indicated.

When ordering, send plaster of Paris cast of limb and foot.

Price from \$20 00 to \$50 00

An important feature in all our braces is the accurate approximation of the joints to those of the parts to be supported; hence we accomplish better the preservation of the natural function.

Orthopedic Apparatus.**7700. WHEEL CRUTCH. ±**

7700

Illustration shows an admirable contrivance for patients who have lost control of the lower extremities, for enabling them as much as possible to move about freely.

The lower portion is constructed from light, yet strong metal tubing. The upper portion from metal rods which slide within the tubing. This arrangement allows adjusting to the height of the patient, higher and lower, within the range of 8 to 12 inches, according to size. A chest and axilla pad is provided on the upper rod. The apparatus is constructed in such a manner as to enable the patient to move at the least exertion and to change the direction of movement at the slightest answerg. The wheels are bound with soft leather, to prevent noise and jarring on the floor.

For very helpless patients a body support is attached which can be adjusted to relieve the arms, and allows the patient to rest, while using the crutch.

This crutch is especially adapted for cases of hip joint disease, diseases of the spine, paralysis and deformities of the legs and feet.

Measurements required

Width of the body in direct line from arm pit to arm pit.

Distance from arm pit to floor, arms hanging at the side.

Circumference of waist over underclothing, if supporter is needed.

To measure width of body correctly, place a ruler under each arm close to the body, projecting in front parallel and take distance between (not following curve of chest).

Price of wheel crutch, according to size	from \$35.00 to \$50.00
" " supporter	extra 5.00 " 7.00

CHILDREN'S SHOES (2)**For use with Weak-Ankle, Bow-Leg, Knock-Knee Braces.**

The shoes form an important adjunct to these apparatus, and to be of the most benefit they should be comfortable and convenient to lace, with durable uppers, broad soles, strong shanks and low heels (not spring heels). For greater ease in applying braces they should be open to within 1½ inch from tip.

As such shoes cannot be obtained at stores, we anticipate the convenience of our patients and carry a stock of these specially made for us according to our specifications. These shoes are durable and neat, and suitable for the intended purpose.

Sizes 4 to 7½	per pair \$2.25
" 8 to 10½	" 2.50

See Information and Terms on page 542.

Orthopedic Apparatus. =

7860* DR. L. A. SAYRE'S SHORT SPLIT FOR THE TREATMENT OF HIP JOINT DISEASE.

The Sayre's split is intended to make traction upon the thigh to relieve the tension in the hip joint.

This instrument consists of a pelvic band A, passing partly around the body under the crest of the ilium, well padded on its inner surface, to which usually two perineal straps B B, are fastened for counter extension; the outer surface of the pelvic band holds a ball-and-socket joint terminating into a tubular steel rod, passing down the outer side of the thigh to within about two inches of the lower end of the femur. This rod is divided into two sections, B and C, the lower solid part B moving within the upper tubular part, C, and controlled by a ratchet and key, D, by which the length can be increased or decreased.

At the lower extremity of the bar B is a projecting branch E F going over to the inner surface of the thigh to receive the attachments of the plaster.

Both of the lower extremities terminate in a cylindrical roller, over which the ends of the plaster are attached to the two hooks placed at the lower ends of the instrument.

This split is suited for such cases where the knee is not flexed or affected, and where mobility of the joint is allowed.

Measurements required (see per diagram on page 343).

- | | | |
|----------------------------|----|---|
| 1. Patient's name (if sex) | 1. | Length from knee joint to above trochanter major (7 to 13). |
| 2. " age and weight. | 2. | Circumference above knee (5). |
| 3. General appearance. | 3. | " at middle of thigh (4). |
| 4. Right or left hip. | 4. | " of body above trochanter major (1). |

Price, according to size From \$20.00 to \$25.00



7862* DR. L. A. SAYRE'S LONG SPLIT FOR HIP JOINT DISEASE.

(MORRIS COXARTH.)

This split differs from the short one before described in these particulars: It extends the entire length of the limb, and receives the weight of the body upon a cross bar under the foot and a steel giraffe encircling the pelvis, having two perineal straps.

The long hollow steel tube reaching from the pelvis to the sole of the foot, has a solid steel rod running inside of it, provided with a ratchet, movable up and down for lengthening and shortening, by a key which works in the ratchet through an opening on the outer side of the tube.

The upper part of the long hollow steel tube is solid and strong, fastened to the steel giraffe either by a simple bolt making a flat joint, permitting forward and backward movements of the hip joint, or by a ball-and-socket joint, which permits all movements that the hip joint performs in its normal state.

The steel giraffe is well padded. From two points in front to two points in the back perineal straps for counter extension pass along the perineum and under the scrotum. A strong leather sole is fastened to the cross bar at the bottom of the instrument; a strong leather strap passes through apertures just above the cross bar, turns up an end on each side of the ankle and fastens into the buckles attached to the tube from the adhesive plaster of the leg.

There is also attached to the bar running along the outer side of the limb a cross piece which can be adjusted to a position conforming to that of the knee-joint, so this is buckled a knee-cap for the steady support of the knee.

For comfort and where the application of plaster cannot be borne, we also manufacture a cylindrical spring box, as shown on fig. A, next page, fastened to the sole of the shoe, into which slips the foot-piece of the split and is firmly held in place by a spring. This permits free motion of the ankle-joint.

Measurements and outline required same as for No. 7860.

- | | |
|-----------------------------|--------------------|
| Price, with plain joint | \$20.00 to \$25.00 |
| " " ball-and-socket joint | 35.00 45.00 |
| " of cylindrical spring box | extra 5.00 |



Orthopedic Apparatus.**7568.* J. C. HUTCHISON'S HIP-JOINT APPARATUS.**

This apparatus differs from the Sayre's long hip splint in that it is fastened to a shoe, and therefore needs no adhesive straps. Two rods of steel extend from the foot to the upper third of the thigh and are secured to the leg with calf and thigh bands. The outside rod, longer than the other one, is provided with a ratchet and key and slides in a steel tube which is hinged by a ball-and-socket joint to a pelvic band. To this pelvic band is attached a perineal strap for counter-extension. Extension is made by working the splint with a key. The apparatus is provided with joints for the ankle and knee; the latter one is adjustable to any degree of flexion and extension, and may be fixed at any point at its motion limited, by an arrangement of a screw and two nuts.

Measurements and outlines required, as per diagrams and directions on pages 541, 542 and 545:

1. Patient's name (or sex).
2. Patient's age and weight.
3. General appearance.
4. Right or left limb.
5. Length from side of foot to ankle-joint (1 to 2).
6. Length from sole of foot to knee-joint (1 to 7).
7. Length from sole of foot to perineum (1 to 11).
8. Length from sole of foot to above trochanter major (1 to 13).
9. Circumference at calf (3).
10. Circumference at garter (6).
11. Circumference at knee (7).
12. Circumference above knee (8).
13. Circumference at middle of thigh (9).
14. Circumference of body above trochanter major (13).
15. Outline of limb from iliac crest to sole of foot and up to the perineum (fig. 8).
16. Outline of pelvis above trochanter major (fig. 3).
17. Send well-fitting shoe to fact.

Price of apparatus \$30.00 to \$45.00

7570.* APPARATUS FOR DISLOCATION OF THE HIP-JOINT, COXITIS, UN-UNITED FRACTURE OR RESECTION OF THE FEMUR, AND PARALYSIS OF THE LEG.
(DESIGNED BY HENNING.)

We illustrate herewith a brace as devised by Henning for use in cases of total paralysis of the leg and thigh, or for fracture at any portion of the extremity. The foot, leg and thigh sections have been shown and described in figs. 7790 and 7844; the upper section is constructed in like manner and embodies an adoption of the principle of artificial muscles.

The most hopeless and helpless condition that falls to the lot of the orthopedist and mechanician to treat is that of total paralysis of the muscles of the limb and pelvis. The maintenance of the weight of the body over the functionless extremity is most difficult. Where, however, there remains some slight muscle power about the hip, it may be possible to furnish sufficient reinforcement by means of such a brace as Henning's to enable the patient to walk.

The difficulty experienced in these cases is in preventing flexion of the thigh upon the abdomen when the weight of the body is placed upon it. To accomplish this purpose, a firm pelvic band of steel and moulded leather furnishes the most point of fixation, the thigh band the lower point, between these two, on the posterior aspect, a heavy rubber strap being interposed and sufficient tension applied to provide against flexion.

Each section is made adjustable to changes in position of the parts and the entire apparatus is a most finished and efficient one.

When ordering, send plaster of Paris cast of pelvis, limb and foot.

Price from \$60.00 to \$125.00



Orthopedic Apparatus.

2872.* DR. JAMES K. YOUNG'S FIXATION TRACTION HIP-SPLINT.

Consists of a body or corset portion made of leather or canvas, and broad thick and soft bands of extended leather, the whole being reinforced with a posterior steel bar passing down the back, the leg and the calf. This bar terminates in an extension racket, to which are attached extension bands with two buckles. Two peroneal straps are used for counter-extension.

This apparatus gives both fixation and traction, and is applied and attached to the limb by means of adhesive straps fastened to the leg and thigh.

When ordering, send a plaster of Paris cast of affected leg and body from the ankle to the lower border of the scapula.

Price according to size.

From \$25.00 to \$35.00.



2872

2874.* DR. JAMES K. YOUNG'S SPLINT FOR HIP-JOINT DISEASE.

This splint is very serviceable for wear after the acute symptoms have disappeared entirely, and when a fixation splint is required for the protection of the patient against injury.

It consists chiefly of a hard leather pelvic and thigh piece, well shaped over a plaster of Paris cast, and firmly held to the body by means of laces and buckles. It is perforated in order to increase the comfort to the wearer and to reduce, though slightly, the weight of the appliance.

Formerly attached is a steel bar which extends from the waist to the foot. A leather calf band and a foot piece reinforced by a steel coil, neatly fitted to the shoe, support the leg and foot and prevent motion.

When ordering, send a plaster of Paris cast of pelvis, thigh and foot.

Price

from \$25.00 to \$35.00

See information and Terms on page 542.



2874

Orthopedic Apparatus. —

7870. AGNEW'S MODIFICATION OF THOMAS' HIP SPLINT.



7870.

This cut represents the posterior splint or apparatus for the treatment of all stages of hip disease (coxaalgia). The upper or pelvic portion is made of leather, formed in the same manner as the spinal leather jacket from a plaster cast. To this is attached the posterior bar of steel, covered with leather and extending down over the buttock, fitting closely against the leg to just above the ankle. The pelvic part is provided with hooks to laces, and there is a band around the thigh, one around directly over the knee, and one above the ankle. When this apparatus is firmly attached to the body and leg, there is no possibility of motion at the hip-joint in any position the patient may place himself. A shoe with a steel or cork elevation 2½ to 3½ inches high is fitted to the well foot and a pair of crutches furnished.

In ordering this splint a plaster of paris jacket should be made extending from above trochanter major to half way to a villus; in cases where the spine is affected it may reach up somewhat higher.

Before the jacket is cut off, a mould should be taken on the posterior part of leg and body, from above ankle over the buttock up to the top of the plaster jacket.

Trace the outline of this mould on a sheet of paper marking thereon the points above ankle, middle of knee, upper third of thigh and top of plaster jacket.

For making mould use a strip of sheet lead about ¼ inch thick and ½ inch wide, or a piece of ½ inch lead pipe bent into flat, or a piece of pliable wire about 7-15 inch thick. If inconvenient to procure, we shall be pleased to forward a suitable lead strip.

Measurements and outline required as per diagrams on pages 543 and 544.

1. Patient's name (or sex).
2. " age.
3. General appearance.
4. Right or left leg.
5. Cork shoe or steel elevation.
6. Circumference above ankle (1).
7. " " at knee joint (2).
8. " " middle of thigh (3).
9. " " upper third of thigh (4).
10. Plaster of paris jacket as directed above.

11. Outline from above ankle over buttock to top of plaster jacket as directed above.

12. Send a well fitting shoe for well foot if steel elevation is desired, or measurements as per directions on page 543.

Price of splint with cork shoe and crutches . . . \$15 00 to \$45 00

" " " " steel elevation and crutches . . . 20 00 40 00

7871. THOMAS' POSTERIOR HIP SPLINT.

This splint is in most respects identical with No. 7870 having the same posterior bar, with bands above ankle, directly over the knee and below perineum. At the top however, it is provided with two steel bands, well padded, one a trifle below the upper edge of the pelvis, the other about two inches below axilla.

It is preferable for such cases where no curvature of the spine exists, but where, nevertheless, fixation of the hip joint is essential.

This appliance is less expensive than the Agnew's and can be constructed in less time than the one with a leather jacket.

A shoe with steel or cork elevation is worn on the well foot, and a pair of crutches used.

Measurements and outlines required, same as for No. 7870.

Price, according to size . . . \$12 00 to \$18 00

" " " " with steel elevation and crutches . . . 10 00 25 00



7871.

Orthopedic Apparatus. =

7880* POSTERIOR HIP SPLINT WITH LATERAL ABDUCTION BAR.

This apparatus is very similar to the Thomas' Posterior Hip Splint, from which it differs mainly in three points: that it is provided with a lateral abduction bar, and that it extends below the foot.

To the lower end of the posterior bar a foot-piece is attached which should extend below the foot far enough to make the leg brace equal in length on the sound leg with the height of the cork or steel elevation added. The foot-piece is so constructed that it can be shortened or lengthened as the case may require.

At the hip joint an abduction bar is attached to the pelvic band, extending and secured to the thigh band, which latter is not riveted to the posterior bar, but works independent from it in connection with the abduction bar. By turning the abduction screw toward the pelvic band, traction is made on the head of the femur, drawing it out of the socket and therefore avoiding any undue pressure at the inflamed joint when the weight of the body is borne on the splint.

The patient will rest on the strong perineal strap which acts also as counter-extension.

Measurements and outlines required, as per diagrams on pages 343 and 344:

1. Patient's weight (or sex).
2. " age.
3. General appearance.
4. Right or left leg.
5. Cork shoe or steel elevation.
6. Circumference above ankle (3).
7. " " at knee joint (7).
8. " " middle of thigh (9).
9. " " upper third of thigh (10).
10. " " below iliac crest (13).
11. " " axilla (18).
12. Outline over back, two inches below iliac crest.
13. Outline over chest, two inches below axilla.
14. Outline from above ankle over buttock to a line about two inches below axilla, marking thereon the points: above ankle, middle of knee, below perineum, two inches below iliac crest, and two inches below line of axilla.
15. Send a well-fitting shoe for well foot if steel elevation is desired, or measurements as per directions on page 343.

(For making outlines use a strip of sheet lead about $\frac{1}{4}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe hammered flat, or a piece of pliable wire about 3-16 inch thick. If inconvenient to procure, we shall be pleased to forward suitable lead strip).

Price, with cork elevation shoe and crutches \$20.00 to \$50.00
 " " steel elevation (if shoe is furnished) and crutches 25.00 " 45.00



7880



7881* SAYRE'S NIGHT EXTENSION APPARATUS.

Employed for extension in bed to continue the treatment given during the day by a hip splint. It is a sturdy made jean anklet, lacing over the instep with a stout leather tongue underneath. Secured at its sides are buckles into which are fastened the tabs holding in buttonholes the wooden cross-piece.

Measurements required as per diagrams on page 343.

- Circumference at instep (b).
- " " over heel (c).
- " " at ankle (d).
- " " above ankle (e).

Price \$5.00

See Information and Terms on page 343.

Orthopedic Apparatus. ±

7784* DR. G. Q. DAVIS' COXALGIA APPARATUS.

Two lateral steel bars extend the entire length of the leg and receive the weight of the body at a cross bar under the foot. The inner bar has at its upper end a soft padded semi-circular ring which passes posteriorly around the thigh and connects with the outer bar below the trochanter joint. The outer bar reaches to below the crest of ilium and has an adjustable plate at the trochanter joint to regulate the motion of the joint. A well shaped steel guide encircles two-thirds of the pelvis and is provided with two perineal straps. Two wide leather bands retain the limb in place; they are fastened to the lateral bars, and pass anteriorly over the middle of the thigh and the knee. The bars are adjustable at the lower portion of the apparatus, and to add to their strength are kept in their relative position by a semi-circular steel band. The cross bar or walking surface is leather soled. A short distance above the same is a revolving axis slotted to receive the extension straps which are buckled to the shoe of the patient. The axis can be manipulated by a key and furnishes the extension of the limb, the counter extension being furnished by the other limb.

The shoe on the sound foot should have an elevation of at least $\frac{1}{4}$ inches. Crutches are used in conjunction with this apparatus.

Measurements and outlines required, same as for No. 7686.
Send well-fitting shoe to foot.

Price

from \$25 00 to \$40 00

7784



7686* DR. JAMES K. YOUNG'S CONVALESCENT HIP-SPLINT.

Designed for after-treatment of hip-joint disease, when support to the affected hip is still desired, and the joint becomes gradually accommodated to motion.

It consists of a strong lateral steel bar with joints at the ankle, at the knee and at the trochanter; the two latter ones may be provided with lock device. Further of a strong, well-guided pelvic girdle with two adjustable perineal straps which allow for traction if such is desired. Also of two leather cuffs, each about five inches wide, placed above and below the knee, and provided with eyelets to lace, their purpose being to hold the lateral steel bar close to the leg and afford it the necessary support. Finally, of a steel insole of half sole length, which is rigidly attached to the stirrup and is covered with leather.

The apparatus can be worn inside the shoe. The high-soled shoe on the sound limb is omitted.

Measurements and outlines required, same as for No. 7686.

Send well-fitting shoe to foot.

Price from \$25 00 to \$40 00



7686

We would respectfully refer to the diagrams and directions for taking measurements and outlines, on pages 525, 534 and 545. These directions are so carefully stipulated and easy to follow, that the physician should experience no difficulty in furnishing us the correct data, guided by which we can always produce a properly fitting appliance. We shall be pleased to furnish an application, free of charge, a lead strip suitable for making outlines.

Orthopedic Apparatus.

7586.* WILLARD'S SPLINT FOR HIP DISEASE IN THE THIRD STAGE, AND FOR FRACTURE OF THE NECK OF THE FEMUR.

This splint is intended especially for hip disease cases that have passed the acute stage, but which need support and protection, and yet can safely allow flexion during sitting. It is also very helpful as a support following fracture of the neck of the femur.

It is provided with a swivel and lock back, which gives fixation during locomotion, but can be unlocked while sitting. The splint consists of a broad pelvic portion of leather moulded over a cast of the body, attached by the joint described to another leather portion enveloping the thigh. It can be used either with or without crutches. It permits no motion except that of flexion, and thus motion only when the joint is unlocked.

When ordering this appliance, make a plaster of Paris mould of body from hip joint to about four inches above knee. Before taking off this plaster mould, obtain outline from top of mould over side of affected hip and leg to about two inches above knee. Mark thereon the top and lower ends, also joint of leg joint.

Measurements and outline required, as per diagrams and directions on pages 545, 546 and 547:

- | | |
|---|--|
| 1. Patient's name (or sex). | 4. Circumference above knee (8). |
| 2. Patient's age. | 5. Circumference at middle of thigh (5). |
| 3. Height at left side. | 6. Circumference below perineum (11). |
| 4. Length from knee to hip-joint (7 to 12). | 7. Plaster of Paris mould, as directed. |
| 5. Length from knee to perineum (2 to 15). | 8. Outline as directed (fig. 8). |

Price, according to size \$35.00 to \$45.00



7586

7587.* CORK ELEVATION SHOE.

The cork elevation shoe has the advantage of being light, water and heat resistant, and wears better than other forms of elevation.

Instructions and Measurements Required.

To determine the height, have the patient (both feet) stand erect; place body under the short foot and the shoulders and pelvis are in horizontal lines; then measure the thickness of these heels, which will be the height required for elevation.

1. Patient's name (or sex).
2. Patient's age.
3. Measurements of foot, as per directions on page 545.
4. Height of elevation, as per directions above.
5. State whether for right or left foot.
6. Specify style of shoe wanted, to lace or to button.
7. State kind of leather desired.

Price of cork elevation shoe, according to size of shoe and height of cork:
For adult, \$2.00; for youth, \$1.50; for child, \$1.00 to \$1.50.



7587

7588.* STEEL ELEVATION.

It is securely fastened under any plain shoe, and provided with a leather sole to avoid noise when walking and to prevent slipping. Cheaper than cork elevation and can be transferred to another shoe.

Directions required:

1. Send a well-fitting shoe.
2. State height of elevation, as directed under No. 7587.

Price of steel elevation (if shoe is furnished):
For adult, \$5.00; for youth, \$2.50; for child, \$1.00.



7588

Orthopedic Apparatus. ±

700* LENTZ'S APPARATUS FOR AFTER-TREATMENT OF COMPOUND FRACTURE OF THE TIBIA AND FIBULA.

The cut represents an apparatus for after-treatment of compound fracture of the tibia and fibula. It has proved very successful in such cases where the newly formed union is not firm enough to bear the weight of the body, and in cases of un-united fractures.

It is constructed of two lateral bars which are fastened to the shoe and made to shorten or lengthen. The top band is made of sheet steel, covered with leather and well padded. It is fitted directly under the head of the tibia, thereby taking the weight of the body off the limb, and transferring it to the brace.

Measurements required as per diagram on page 543:

1. Patient's name (or sex).
2. " age and weight.
3. Right or left leg.
4. Length from sole of foot to ankle joint (1 to 2).
5. " " " " " " garter (3 to 6).
6. Circumference at calf (5).
7. " " " " " " at garter (6).
8. Outline of leg from center of knee along both sides; see page 542.
9. Send a well fitting shoe to lace, or measurements as per directions on page 542.

Price of apparatus, according to size

\$14.00 to \$18.00



700

702* APPARATUS FOR AFTER-TREATMENT OF FRACTURE OF THE FEMUR, FOR THE SUPPORT OF FALSE JOINT, OR FOR UN-UNITED FRACTURE.



702

This apparatus is devised for after-treatment of fracture where the newly formed union of the femur is not sufficiently strong to carry the weight of the body, or to guard against recurrence. It is of great value and benefit to patients who must attend to business before they are perfectly well, as it is an absolute safeguard and the patient need not fear a recurrence from a misstep.

It is of good service also in cases of un-united fractures or false joint of the femur, as it gives the thigh great firmness and allows the patient to walk without much difficulty.

The appliance is constructed of two lateral steel bars, the inner one reaching nearly to the perineum, while the outer one extends to one inch below iliac crest and is provided with a pelvic band; to this band is attached a perineal strap which carries the weight of the body. A broad, well padded band encloses the thigh, a narrower band the calf. Joints are provided at the hip, knee and ankle; or if the knee joint is desired to remain stiff when walking, we make there a lock joint which can be readily unlocked by pressure of the hand outside the clothing.

Measurements required, as per diagram on page 543:

1. Patient's name (or sex).
2. " age and weight.
3. Right or left leg.
4. Seat of fracture or false joint.
5. Length from sole of foot to knee joint (1 to 2).
6. Length from sole of foot to perineum (3 to 11).
7. Length from sole of foot to trochanter major (1 to 12).
8. Length from sole of foot to iliac crest (1 to 13).
9. Circumference at calf (5).
10. " " " " " " at garter (6).
11. " " " " " " at knee joint (7).
12. " " " " " " above knee (8).
13. " " " " " " at middle of thigh (9).
14. Circumference one inch below perineum (11).
15. Circumference one inch below iliac crest (13).

16. Outline of limb from iliac crest to sole of foot and up to the perineum, as per directions for taking outlines on pages 544 and 545.

17. Send well fitting shoe to lace or measurements as per directions on page 543.

Price, according to size

\$30.00 to \$45.00

Orthopedic Apparatus.

AMBULATORY PNEUMATIC SPLINT. 4

For the Treatment of Fractures of the Hip, Thigh, Patella, Leg and Ankle, and of Cases of Non-Union, Knee-Joint or Hip-Joint Disease. Adjustable to Right or Left Limb.



7904

Fig. 7904 shows application of splint with posterior padded cardboard spine, for fractures of the tibia, leg and knee.

Fig. 7905 shows application of splint with hip-joint immobilizing attachment and padded belt, for fractures of the femur, neck of the femur, or for hip-joint disease. It also shows adhesive strap traction with posterior padded cardboard spine, and lock-joint features which permit patient to recline at an angle, or to sit down.

Directions for ordering:

1. State nature of fracture.
2. Adult or child.
3. Right or left limb.
4. Length from sole of foot to perineum (1 to 11).
5. Circumference of thigh at perineum (11).
6. Elevation shoe for male or female.
- If for fracture of upper third or neck of femur or for hip-joint disease state also:
7. Circumference at trochanter major (12).
8. Circumference under axilla (15).
9. Length from sole of foot to axilla (1 to 18).

With this information we will send splint adjusted ready to comfortably fit patient, with all parts fully tagged and application notes enclosed.

- 7904.* Ambulatory Pneumatic Splint, with elevation shoe, little key and pump. \$40.00
 7905.* Ambulatory Pneumatic Splint, with hip-joint immobilizing attachment, and with elevation shoe, little key and pump. 50.00
 Compound Key, for lengthening or shortening four screws of splint together. 5.00
 Case for complete outfit. 5.00

Note.—The apparatus is carried in stock and can be supplied immediately.

Made in two sizes, adult and child.

It may be applied to either limb and adjusted to patients of various sizes.



7905

7906.* APPARATUS FOR AFTER-TREATMENT OF FRACTURE AND FOR DISLOCATION OF THE SHOULDER JOINT.



7906

Injuries to the shoulder, whether resulted in a fracture, or merely in a dislocation or sprain of slight character, are very frequently followed by painful conditions or other disturbances of the parts which necessitate a supporting or protecting apparatus until a cure can be effected. This should be capable of maintaining the parts in proper relationship, and yet should permit function within certain limits so as to promote the early restoration of normal use after removal of the support.

The appliance shown in illustration will be found a most useful and versatile one in cases of dislocation of the acromial end of the clavicle, fracture of the acromion process, recurrent dislocation of the humerus, delayed union in fracture near the shoulder joint and in sprains of this part.

The moulded leather cup fits closely over the shoulder and covers the upper half of the clavicle, nearly all of the scapula and the upper end of the humerus, and is held securely in place by an axillary strap, well padded to protect the folds of the axilla, and by a girth about the chest. It can be worn light or heavy according to the demands of the case, but in either event it will not interfere to any great extent with the function of the shoulder.

An accurate oblique of Paris cast of the shoulder is required, and the following directions: 1. Patient's name for use. 2. Right or left shoulder. 3. Circumference of arm under axilla over shoulder-joint. 4. Circumference of chest under axilla.

Price from \$12.00 to \$28.00

Orthopedic Apparatus. —

7008* SMITH'S APPARATUS FOR UN-UNITED FRACTURE OR RESECTION OF THE HUMERUS AND FOREARM.



Measurements required:

1. Length from wrist to elbow joint.
2. " " elbow joint to axilla.
3. Circumference at wrist.
4. " " at middle of forearm.
5. " " below elbow.
6. " " at elbow.
7. " " above elbow.
8. " " at axilla.
9. State whether for right or left arm.
10. Give outline of arm, traced on a sheet of paper.

Price From \$20.00 to \$45.00



7010* HUDSON'S WRIST DROP APPARATUS.

This deformity consists, as its name implies, in a drooping of the hand, which is an undue flexion consequent upon paralysis of the extensor muscles of the forearm. The most common cause is lead poisoning. When the lead palsy, as it is sometimes called, has continued for some time, atrophy of the muscles is a common result, and in many cases it is very marked. The lead affects the entire system, diminishing the power of all the muscles of the body; a more common manifestation, however, is a paralysis of the extensor muscles of the hand and fingers when the patient becomes unable to extend them.

The apparatus illustrated has the function to strengthen the undue flexion and to restore the extensor muscles to normal condition. It consists of well-shaped leather sockets to receive the lower part of the forearm and the hand as far as the knuckles. The two are connected by joints at the sides, and traction is made by means of springs between knuckles and wrist. In cases where the fingers also are involved, a socket is provided for each finger, and the springs extend to them from wrist over knuckles.

Directions required:

1. Master of parts is 100M from knuckles to middle of forearm.
2. Where drooping of the fingers is present, give also circumferences of the four fingers.
3. State whether contraction is very strong, moderately strong or slight.

Price From \$25.00 to \$50.00

WRITER'S CRAMP APPARATUS.

Velpeau's
 Mathieu's, for thumb and index finger
 Charrière's
 For index and middle fingers

\$10.00
 15.00
 10.00
 7.00

Orthopedic Apparatus.

7912.* LEATHER SOCKET APPARATUS FOR UN-UNITED FRACTURE OR FOR RESECTION OF THE FOREARM, OR FOR FRACTURE AT THE WRIST.

It consists of a carefully molded perforated sole leather socket, lined with chamois skin, and reinforced with one or more light steel stays. It is adjustable by means of buckles on laces, thus giving a firm support to the affected parts.



7912

The apparatus can also be made with a joint at the wrist.

When ordering, send a plaster of Paris cast of the arm, from elbow to knuckles of hand.

Price, according to size

Price, with wrist joint

\$8 00 to \$14 00

12 00 " 20 00

7914.* WRISTLET FOR AFTER-TREATMENT OF FRACTURE AT OR ABOUT THE WRIST-JOINT.

This appliance gives a most complete support to the affected parts. If immobility at the joint is desired, several incompressible steel stays are inserted to keep the wrist-joint entirely rigid.



7914

Measurements required:

1. State whether for right or left arm.
2. Circumference of hand below knuckles.
3. Circumference at wrist-joint.
4. Circumference above wrist-joint.
5. Circumference at middle of arm.
6. Send plaster of Paris cast from elbow 6 inches above wrist-joint to below knuckles, also a carefully taken diagram of hand and forearm.

Price, according to size

\$1 00 to \$4 00

7916.* WRISTLET FOR SUPPORT AT AND ABOVE THE WRIST-JOINT.

Made of calf leather, three inches wide, lined with kid leather, adjustable by three buckles. It is not extended to the metacarpal bones, yet gives a fair degree of support.



7916

Price

Measurements required:

1. Circumference at wrist-joint.
2. Circumference two inches above wrist-joint.

\$2 25



7918

7918.* WRISTLET FOR SPRAINS AND BRUISES AT WRIST-JOINT.

With two buckles

\$2 50

7920.* WRISTLET FOR SPRAINS AND BRUISES AT THE WRIST-JOINT.

With one buckle

\$2 50

Measurements required, same as for No. 7916.

They also serve to strengthen and protect the wrist in arthritic exercises.



7920

See also Elastic Wristlets, pages 536 and 537

See Information and Terms on page 542.

Orthopedic Apparatus. =

SPINAL BRACES.



Lateral Curvature.



Lateral Curvature.

Antero-Posterior Curvature,
(Pott's Disease).

Measurements and Outlines Required for Spinal Apparatus.

(as per diagrams on pages 543 and 544.)

1. Patient's name (or sex).
2. " age.
3. General appearance of patient.
4. State whether the convexity of the curvature is to the right or left side.
5. Length from one inch above trochanter major (13) to the first vertebra involved.
6. " " " " " " " " " " " "
7. " " " " " " " " " " " "
8. " " " " " " " " " " " "
9. " " " " " " " " " " " "
10. Distance from the center of one scapula to the center of the other.
11. Circumference of pelvis one inch above trochanter major (13).
12. " of waist (25).
13. " of chest (over bust) (17).
14. " of chest under axilla (23).
15. Outline of each side of body, from axilla (with arms down) to one inch above trochanter major (23 to 13).
16. Outline of each side of spinal column, from one inch above trochanter major to superior border of scapula (13 to 20).
17. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band.
18. (For cases of antero-posterior curvature). Outline over curvature, from one inch above trochanter major to superior border of scapula (13 to 20).

To obtain outlines, use a strip of sheet lead about $\frac{1}{8}$ inch thick and $\frac{3}{4}$ inch wide, or a piece of $\frac{1}{4}$ inch lead pipe, hammered flat, or a piece of pliable wire about $\frac{1}{8}$ inch thick. (If inconvenient to procure, we shall be pleased to forward a suitable lead strip.)

With each a strip make the moulds over the parts as directed above; then trace them on a sheet of paper and mark by letter "X" that side of outline which is toward the body; also mark top and lower ends.

On page 544, figs. 1, 2, 3 and 7, we show how these outlines will appear approximately.

Orthopedic Apparatus. ±

7930* DR. THOMAS G. MORTON'S SPINAL CORSET, FOR LATERAL OR ANTERO-POSTERIOR CURVATURE.



7930

These two illustrations represent the most successful form of corset for weak spine and the early stages of lateral curvature or posterior curvature (Pott's disease). The spinal corset takes the place of the leather and plaster jackets which have been employed more or less for many years, because it is more comfortable to wear and the material more flexible, giving the muscles more freedom to act.

It is made of the finest English satin, with a steel frame added, all fitted expressly to the body. This frame consists of a steel band embracing the body just above the trochanters, and four steel bars, one on either side of the body extending to the axilla and one on



7930

either side of the spinal column extending to the superior border of the scapulae. A pair of shoulder straps reach from the axilla over the shoulders and fasten in back. The four upright bars are connected by steel bands at the waist and at the inferior angle of the scapulae, thus giving firmness to the entire frame. Rubber covered steel stays that will not rust, are inserted between the corset material; these stays are superior to whalebone as they will retain their shape.

We have made this apparatus for a number of years for many hundred cases and it has in every instance given the best of satisfaction. One of the advantages it possesses is that certain changes can be made from time to time as improvement and growth will demand.

This apparatus is neat, light, comfortable, and at the same time efficient and strong.

Measurements and outlines required, see page 585.

Price, according to size from \$25.00 to \$32.00

7932* LENTZ'S IMPROVED SPINAL CORSET WITH ADJUSTABLE CRUTCHES, FOR LATERAL CURVATURE. (SCOLIOSIS).



7932

This illustrates the improved form of spinal corset for extreme cases of lateral curvature; its construction is practically the same as the above No. 7930, with the addition of well padded crutches, terminating in straps which pass over the shoulders and tension to the upright bars in back.

The crutches are made adjustable to permit lengthening as growth or improvement may require.

A broad band of elastic webbing attached to one of the side bars passes over the protruding ribs and is attached to the upright bar on the opposite side of the spine, as shown in the cut; with this artificial muscle constant tension is exerted, rendering this improved form of spinal corset most efficient.

Measurements and outlines required, see page 585.

Price, according to size from \$30.00 to \$42.00

See Information and Terms on page 542.

Orthopedic Apparatus.

7934* SPINAL CORSET FOR LATERAL OR ANTERO-POSTERIOR CURVATURE OF THE SPINE. (Designed by Heston.)

The chief feature of this spinal apparatus is a pair of fundamental hip pieces, made of malleable steel, which are carefully shaped to the pelvis over the crests of the ilia, securing a firm foundation for a proper corrective force. Laterally attached to these hip pieces are upright bars terminating in auxiliary crutches, while in back two flexible steel bars exercise a moderate supporting pressure to both sides along the spinal column.



7934

is front at the middle line. The plaster cast, carefully boxed, should be sent to us with such particulars as will aid us in producing a properly fitting apparatus.

Price \$25.00 to \$50.00

7936* LENTZ'S IMPROVED SHOULDER BRACE.

For extreme cases of round shoulders and slight cases of weakness of the spine the shoulder brace herewith shown has proven very efficient, and we strongly recommend its use in all cases which the ordinary shoulder braces cannot correct but which are not developed enough to demand a more rigid spinal apparatus. The persistent use of this brace will in a majority of cases not only prevent the increase of the mal-posture, but correct that which already exists.

It is made of two upright steel springs and a horizontal steel spring which latter presses directly on the protruding scapulae. The back is made broad and of strong, durable material. The lower portion is a wide abdominal band adjustable at will. Broad straps pass over the shoulders and are buckled to the horizontal spring at axillae. This construction insures a firm and beneficent support.

Measurements required, as per diagram on page 545:

1. Patient's name (or sex). 2. Patient's age.
3. Circumference of pelvis at middle of sacrum (14).
4. Circumference above iliac crest (15).
5. Circumference under axillae (18).
6. Length from middle of sacrum to superior border of scapula (19 to 20).
7. Width of back from axilla to axilla (18).
8. Distance from superior border of scapula (20) over shoulder to arm pit (18).
9. Outlines of back on each side of spinal column from middle of sacrum to superior border of scapula (14 to 20); see page 544, fig. 21.

Price, according to size

For the various Shoulder Braces of Plain Construction, see pages 538 and 539.



7936

from \$8.00 to \$10.00

Orthopedic Apparatus.**7938.² SPINAL CORSET FOR SCOLIOSIS.**
(French Model.)

7938



7938

Constructed on the same principle as the Hessian Spinal Corset. The body is firmly supported by a strongly lined corset which is reinforced with steel stays, and lined at front and back. Laterally attached are two crutches based on soft padded, well-shaped, metallic hip pieces, which form a substantial foundation for a proper auxiliary support.

These crutches, which are adjustable, terminate anteriorly in side straps, made in part of elastic webbing, which pass the shoulders backward and extend down the back to the opposite hip, where they are fastened to small studs.

A stiff leather pad, on one side secured lateral to the corset, gives due pressure upon the protruding scapula; over this pad passes an additional leather strap, which is adjusted to the opposite crutch bar; the purpose of this strap is to reinforce and regulate the pressure of the scapular pad.

Measurements and outlines required, see page 581.

Price

from \$25.00 to \$50.00



7940

7940.² SPINAL CORSET FOR WEAK SPINE AND FOR INCIPENT LATERAL CURVATURE OF THE SPINE.

This spinal brace is extensively used for weakness of the spine and irregular muscular contractions, also in the less exaggerated cases of lateral curvature. It is a light and comfortable appliance, made of thin corset material; for those troubled with excessive perspiration we make it of a perforated material.

To permit proper adjustment, it is provided with eyelets and is laced in front and back. The sides and back of the corset are well reinforced with hand-rubbed, painted steel stays. Straps with partly inserted elastic webbing pass over the shoulders, passing them gently and continuously backwards, and extend under axilla obliquely to the opposite hip, where they are fastened by means of buckles.

Measurements and outlines required, see page 581.

Price

from \$48.00 to \$50.00

See Information and Terms on page 542.

Orthopedic Apparatus. ±

7944.* WASHBURN'S APPARATUS FOR POSTERIOR CURVATURE OF THE SPINE.

(POTT'S DISEASE)



7944

This tract consists of a well padded steel band passing around two-thirds of the pelvis just above the trochanters; two flat steel bars, parallel to each other and extending to the superior border of the scapula; and a cross bar connecting these two uprights at their upper ends. The upright bars are curved to the form of the spinal column yet not quite so much, so that when secured in position their elasticity will constantly operate to rectify the spinal curve; stout straps reach over the shoulders and fasten to the brace.

To make pressure against the projecting vertebrae two properly shaped pads are provided which slide upon the upright bars and are secured to them with screws.

The front part of the brace is a piece of twisted muslin or other strong material, covering the chest and abdomen. It is provided at various parts with straps which buckle to the back brace holding it firmly in position and making the whole apparatus very substantial.

Such parts as are in contact with the body are padded carefully.

Measurements and outlines required as per diagrams on pages 543 and 544.

1. Patient's name (or sex).
2. Patient's age.
3. General appearance of patient.
4. Length from one inch above trochanter major (13) to center of curvature.
5. Length from one inch above trochanter major to superior border of scapula (13 to 20).
6. Length from one inch above trochanter major to axilla (13 to 18).
7. Circumference of pelvis one inch above trochanter major (13).
8. Circumference of waist (16).
9. " of chest over bust (17).
10. " of chest under axilla (18).
11. Outline of each side of the body, from axilla (with arms down) to one inch above trochanter major (13 to 15).
12. Outline of each side of spinal column, from one inch above trochanter major to superior border of scapula (13 to 20).
13. Outline over curvature from one inch above trochanter major to superior border of scapula (13 to 20); mark thereon the center of curvature.
14. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side; for pelvic band.

Price, according to size from \$16.00 to \$25.00

7944.² APPARATUS FOR LATERAL OR ANTERO-POSTERIOR CURVATURE OF THE SPINE.

The apparatus illustrated is practically of the same construction as No. 7944, with the addition, however, of two axillary crutch bars attached to the pelvic band. Sewing holes are provided at the ends of these bars permitting of adjustment of the soft padded crutches. For support in the upper dorsal and cervical region of the spine a head support may be attached as shown in fig. 7944.². This head rest is arranged in such a manner that it can be easily removed without deranging.

Measurements and outlines required, same as for No. 7944, with the addition of the following:

No. 15. Outline over curvature from one inch above trochanter major to occipital protuberance, marking thereon the exact total length, also the first and last vertebra involved (13 to 22). See page 544, fig. 5.

No. 16. Outline of head around the chin and back of neck, two sections, stating also the exact circumference; (line 4. head strap about 200 inches long). See page 544, fig. 4.

Price, according to size, from \$22.00 to \$30.00; with head support, \$32.00 to \$40.00



7944

Orthopedic Apparatus. ±

7902.* TAYLOR'S MODIFIED APPARATUS FOR ANTERO-POSTERIOR CURVATURE OF THE SPINE.

(TOTT'S DISEASE).



This apparatus is devised for cases of antero-posterior curvature of the spine and is a modification of one of the earlier forms of the Taylor's brace for this deformity.

To the upright bars at the back over the distance of the curvature are fastened with screws a pair of narrow plates which are provided with thick pads of felt or powdered cork, so that the brace may be the least uncomfortable to the patient. At the top of the two uprights two well padded, adjustable shoulder pieces are attached which fit close to the neck in order to make lateral motion impossible; they end in straps which pass from the front of the shoulder to the lower cross piece at the back.

At the pelvis we employ a broad, well padded band, encircling the body a little over half, and which receives the uprights.

The brace is held against the patient by an apron reaching from the flexures of the thigh to the level of the axilla, covering the front of the body and fastening by straps to the pelvic band as well as to the upper cross pieces.

Measurements and outlines required, same as for No. 7941.

Price

from \$20 00 to \$28 00

7954.* TAYLOR'S MODIFIED SPINAL APPARATUS WITH CERVICAL OR WRY NECK ATTACHMENT.

Should the disease have developed in the upper dorsal or cervical region of the spine, the apparatus should be constructed with an attachment for sustaining the head. The effect and form of this attachment is that of a lever, acting backwards to raise the head and neck, as shown in cut.

Measurements required same as for No. 7941; and the following in addition:

15. Outline of spinal column; make a model of the spine from middle of sacrum to occipital protuberance, marking thereon center of curvature, vertebra prominens and occipital protuberance.

16. Outline of head, around the chin and back of neck, stating also the exact circumference. (Use a lead strip about 10 inches long.)

On page 544, Figs. 6 and 4, we show how the outlines will appear approximately.

Price from \$28 00 to \$45 00



Orthopedic Apparatus.

7954.* APPARATUS FOR ANTERO-POSTERIOR CURVATURE OF THE SPINE, WITH IMPROVED HEAD REST.



7954

While the ordinary jery mant, with elastic straps, probably fulfills the important mechanical indications for treatment, it is, nevertheless, on some accounts, very objectionable. It is unattractive in appearance, like all supports that pass over the head, and never fails to fix the eyes of the curious on the already over-sensitive patient whenever he chances to appear in public highways. Mothers, too, usually find fault with it, because of attracting so much attention. For these reasons, among others, we devised this apparatus, which,



7955

while not extending over the head, will exert continuous elastic traction upon the diseased vertebrae, and permit of voluntary motion of the cervical vertebrae.

It consists of a well-padded metal collar, which is made in two parts, permitting easy removal and re-application, fitted accurately to the occiput and under the chin; this is hinged to a short stem, which is inserted into a socket at the upper end of the cervical piece; by this combination the head may have rotary motion if required or can be fixed by a set screw; and extension is made by turning the screw below the hinge, as shown very clearly in illustration No. 7954.

This head rest is attached to our Improved Spinal Corset No. 7952 in such a manner that it can be easily removed without disrobing, and the corset worn without it.

Measurements and outline required, same as given on page 585, with the following additions:

19. Outline over vertebrae from one inch above tracheary major to occipital protuberance, marking thereon the exact total length, also the first and last vertebrae involved (13 to 22). See pages 544 and 545, No. 6.

20. Outline of head around the chin and back of neck, two sections, stating also the exact circumference. (Use a lead strip about 20 inches long). See pages 544 and 545, No. 6.

Price of Spinal Corset and Head Rest from \$45.00 to \$60.00

See Information and Terms on page 542.

NOTICE.

As numerous and various orthopedic apparatus are constantly brought forward and suggested in medical journals as well as in text books, it is quite impossible for us to show them all in our catalogue; we would, therefore, respectfully suggest that physicians, in ordering apparatus which we do not show in the catalogue, should state the name and date of the journal or other publication in which they are described or illustrated.

Orthopedic Apparatus. =



1996* LENTZ'S SPINAL BRACE FOR ANTERIOR CURVATURE OF THE SPINE.
(Lordosis.)

We illustrate herewith an improved apparatus for the support of the spine in cases in which there exists anterior curvature from weakness or relaxation of the muscles.

A double pelvic band forms the foundation and consists of well-padded buck half encircling the pelvis and adjusted intimately by straps and buckles. It is made especially wide in order to distribute the pressure, and to prevent chafing sites. A large and adjustable dorsal pad is provided; it supplies a generous base for counter pressure analogous to the one at the hips, and lessens the danger of pressure sores so frequently met with in these cases. A horizontal steel rail which is also adjustable, crosses the scapulae and terminates in crutches. The latter are padded softly and afford more efficient support than is obtained from the commonly used leather straps. The curves of the crutches fit the axillary folds, and will be found much more comfortable than the ordinary forms. A broad apron, attached by straps to the dorsal pad, firmly holds the chest and supports the abdomen. The back bar is made adjustable at its lower portion by means of a slot and set-screws, in order to meet the requirements of increased growth or correction of the deformity.

The ease of application and removal by the patient, once the appliance has been carefully and accurately fitted, strongly recommends it to the patient and to the attending physician.

When ordering this apparatus, a plaster of Paris cast of the trunk is preferable, tracing from the trochanter major to the upper borders of the scapula; or else give carefully taken measurements and outlines, as per diagrams on pages 543, 544 and 545:

1. Patient's name (or sex).
2. Patient's age.
3. Length from one inch above trochanter major to superior border of scapula (13-20).
4. Length from one inch above trochanter major to axilla (12-18).
5. Length from crest of ilium to axilla (15-18).
6. Circumference of body one inch above trochanter major (11).
7. Circumference of body at waist (16).
8. Circumference of body at chest, over bust (12).
9. Distance from the center of one scapula to the center of the other.
10. Outline of spine from sacro-lumbar articulation to vertebra prominens.
11. Outline of pelvis from one side of superior spine over back to the other side (fig. 3).

Price

From \$15.00 to \$50.00

See Information and Terms on page 542.

Orthopedic Apparatus. ±

7958 JOHNSTON'S SPINAL SUPPORT FOR ANTERIOR CURVATURE OF THE SPINE.

(LONDON).



7958

For this deformity a quite simple but very effective brace or spinal support is made which can be applied or removed readily, thereby overcoming the objections of the plaster jacket. The illustration gives a fair idea of the brace. Attached to a well padded pelvic band is an upright steel bar to which are fastened by an adjustable arm, pads for the scapulae. This adjustable arm terminates in well padded crutch horns fitted accurately under the axilla to relieve the weight of the body; straps pass over the shoulders, continuing diagonally across the back, and fastening on the scapular pad of cast side. On the upright steel bar three or more well tempered steel springs are fastened. These springs are so shaped that they act as strong levers. The broad abdominal band is made of succin jeans, interlaced with some elastic material and buckles by straps to



7958

these springs; not only affording support, but producing a certain amount of pressure to the abdominal muscles, and by so doing reducing the enlarged or puffed appearance that is so well marked in this trouble. This brace can be adjusted so readily that it does not interfere in the least with any other treatment indicated in cases of this kind.

Measurements and outlines required as per diagrams on pages 543 and 544.

1. Patient's name (or sex).
2. " age.
3. General appearance of patient.
4. Length from trochanter major to superior border of scapula (12 to 16).
5. " " " " at each side to axilla (10 to 14).
6. Circumference of pelvis one inch above trochanter major (13).
7. " " " waist (18).
8. " " " chest over bust (17).
9. Outline of spine from trochanter major to superior border of scapula (12 to 16).
10. Outline from one side of superior spine of pelvis over back to the other side, for pelvic band.

Price according to size \$24.00 to \$30.00



7959

7959 MARKOE'S APPARATUS FOR TORTICOLLIS.

This apparatus is made with a well padded pelvic band to which a steel bar is attached extending along the spine to the superior border of the scapula; to this a short adjustable stem is attached extending to the occiput where a well padded metal band is fastened, reaching almost from eye to eye over back of skull, uniting in a leather band over the forehead, and provided with two buttons on each side to receive the chin piece. To the upright bar is further attached a cross piece which passes over the shoulders from inside of scapula and terminates in leather straps which pass under the axilla and fasten to the cross piece. A ball-and-socket joint allows movements of the head into the proper position. The short stem projects backward from the back of the head band, terminating in a ball, which is grasped by a clamp at the end of the upright bar passing up along the spine. The pressure of this clamp is regulated by a thumb screw which is tightened after the head has been brought into a proper position.

Measurements and outlines required same as for No. 7958.

Price \$30.00 to \$40.00

See Information and Terms on page 542.

Orthopedic Apparatus. ±

794* APPARATUS FOR WRY NECK (TORTICOLLIS).



794

This is another form of apparatus for the support of the head and spine; it is very light, easily applied and very effective.

It consists of a broad pelvic band, which reaches from above the trochanters major to the waist. Four upright bars are attached to the steel part of the pelvic band, two along the spine, which receive the head support, and one on either side, to which the crutch horns are fastened; these crutch horns are also connected to the back bars, they are well padded and provided with straps which pass over the shoulders and fasten to the back part of the same.

The head support is arranged in such a manner as to give the head any desired position, either rotary or upward and downward movement. The rotary movement is produced by a pivot and socket, which can be fixed at any position by a set screw; the upward and downward movements are regulated by a thumb screw where the head band is connected by a hinge to the back bar.



795

The head and chin straps are connected by a strap as shown in illustration (No. 796) to prevent them from slipping.

Measurements and outlines required, as per diagrams on pages 543 and 544:

1. Patient's name (if sex).
2. " Age.
3. General appearance of patient.
4. Length from one inch above trochanter major to middle of scapula (13 to 15).
5. " " " " " " to occipital protuberance (13 to 22).
6. " " " " " " to axilla (13 to 18).
7. " " center of the spine passing under axilla over the shoulder to center of spine.
8. Circumference of body one inch above trochanter major (15).
9. " " at waist (15).
10. " " under axilla (18).
11. Distance from above ear around chin to above ear on the opposite side.
12. Outline of spinal column from one inch above trochanter major to occiput (14 to 22), marking thereon the vertebral prominences and occiput.
13. Outline of head from above ear around back of head to the opposite side.
14. Outline of body under axilla over back; $\frac{1}{2}$ of circumference.
15. Outline of pelvis from anterior superior spine on one side over back to anterior superior spine on opposite side, for pelvic band.

To obtain outlines use a strip of sheet lead about $\frac{1}{2}$ inch thick and $\frac{1}{2}$ inch wide, or a piece of $\frac{1}{2}$ inch lead pipe, hammered flat, or a piece of platine wire about $\frac{1}{2}$ inch thick. (If inconvenient to procure, we shall be pleased to furnish a suitable lead strip.)

With such a strip make the moulds over the parts as directed above; then trace them on a sheet of paper. On page 544, figs. 4 and 5, we show how these outlines will appear approximately.

Price of apparatus from \$32.00 to \$45.00

See Information and Terms on page 542.

Orthopedic Apparatus.

7966^a SAYRE'S JURY MAST.

This consists of two pieces of malleable steel, bent to fit the curve of the back. To the lower portion are attached three or more roughened tin strips, long enough to go nearly around the body. Across two cross pieces of the upper extremity springs a central shaft, carried in a curve over the head and capable of being elongated at will. To this is attached at its upper extremity a swivel cross bar with hooks, from which depend straps supporting a head and chin collar.

Application.—The patient having been encased, in the usual manner, in a few thicknesses of plaster roller, the Jury Mast Apparatus is put over this, care being taken that the steel strips are bent so as to conform to the surface of the plaster, and that the shaft over the head be kept in the same line with the spinous processes. The perforated tin is carried around the body, their ends, however, not being allowed to meet. The apparatus having been carefully adjusted, fresh layers of plaster bandage are now applied in order to hold the instrument firmly in its place.

Measurements and outline required:

1. Outline of spinal column. Lay a thin and flexible strip of lead along the spine, extending it exactly to the spine and all its articulations from the top of head to the middle of sacrum. With this pattern trace carefully the shape of the spine and head on a sheet of paper, marking the points opposite the upper and lower borders of the scapula and the crest of the ilium, also the affected parts of the spine. (On page 544, fig. 4, we show how this outline will appear approximately.)
2. Circumference of head, under the chin and over top of head.
3. Circumference of head, around the chin and back of the neck. In taking this measure care should be exercised that the tape encircles these parts in an even horizontal line.
4. Circumference of body over chest.

Price, without plaster jacket

\$12 50

7966^a LENTZ'S TORTICOLLIS HEAD-REST.

This apparatus for the treatment of malposition of the head consists of two narrow encasements, an upper or cervico-cephalic, and a lower or cervico-thoracic segment. These encasements are made of pliable, non-corrosive metal strips, accurately shaped to the respective parts of the head and trunk and are padded comfortably. The upper one is provided anteriorly with a hinge to allow easy application or removal, and has posteriorly a stud and leather strap for adjustment. The lower one is thoroughly adjustable. Narrow vertical stays unite the two segments and give the apparatus the supporting firmness.

The whole is neatly covered with thin, black silk material, rendering this appliance a light and non-conspicuous device, which is readily preferred to the various other styles that are manufactured.

When ordering, send plaster of Paris cast of neck, with chin and shoulder parts.

Price from \$15 00 to \$25 00

See Information and Terms on page 542.

PLEASE! DO NOT CUT OR MUTILATE THIS BOOK.

In ordering, state number of apparatus and give directions required, and we can execute orders satisfactorily. Cutting out illustrations does not aid us any, but destroys the page for future reference.

Orthopedic Apparatus.

706A* PERFORATED HARDENED SOLE LEATHER JACKET FOR ANTERIOR, POSTERIOR OR LATERAL CURVATURE OF THE SPINE.



706A

In ordering a leather jacket an accurate mould of the body must be taken, extending from one inch above the clavicle major to axilla, by means of the plaster-paris jacket, the patient of course being suspended. Before becoming entirely set, the jacket is cut open in front, in the middle line; the mould thus obtained should be sent to us. We are able to reproduce it exactly of hardened sole leather. The leather jacket is provided with eyelet hooks and lacing cords in front, so that if desirable the apparatus may be removed at night. It is also perforated, making it perfectly porous and not heating to the body.

To this apparatus Dr. Sayre's Jury Mast may be added, as shown in No. 707A. This supports the head in an erect position, and the spine is relieved of superincumbent weight by a rod reaching above the back of the head, and from which supporting bands extend beneath both occiput and lower jaw. The weight of the leather jacket is about half of that of the plaster-paris jacket; in some cases a fenestra is cut in the jacket to allow for the prominence of the anterior superior spinous processes of the ilium. Narrow strips of steel are placed at the back and sides of the jacket.

When ordering a Jury Mast with the above jacket, in addition to the mould the following measurements and outline are required:

1. Outline over spine from the lower part of jacket to top of head, marking thereon the top of jacket. Make this outline before removing plaster jacket. See page 344, fig. 3, for outline as it will appear approximately.
2. Circumference of head, under chin and over top of head.
3. Circumference of head around chin and back of neck.

Price of Sole Leather Jacket \$15 00 to \$25 00
With Jury Mast attached, 45 00 to 60 00



707A

Hardened Sole Leather Jacket with Jury Mast attached.



707A

Leather jacket and jury mast applied.

707A Porous Felt Jacket. In ordering this jacket a plaster of paris mould is required same as for leather jacket.

Price of Felt Jacket \$25 00 to \$35 00
With Jury Mast attached, 55 00 to 70 00

706B Trimming Plaster-Paris jacket and sewing on leather facing and lacing hooks \$3 50
706C Lining Jacket with Stockinette Additional 1 50

See Information and Terms on page 342.

Orthopedic Apparatus. =

7060* HORIZONTAL BAR FOR GYMNASTIC EXERCISE.



7060

Gymnastic exercise in connection with appropriate spinal apparatus has well recognized necessity, and it is the exercise on the horizontal bar which has especially a tendency to develop the muscles of the shoulders and back.

To induce children to take such exercise, an apparatus should be uncomplicated lest it might create aversion, and it should become a matter of amusement rather than compulsion.

The amount and character of the exercise should however be under the guidance of the attending physician.

The apparatus may be fastened to any door-frame in the manner shown in illustration. The simplicity of its construction is at once apparent, and it can be used by either child or adult. The bar is made of hard wood, long enough to suit any ordinary door-frame.

Price, complete \$5 00

SAYRE'S APPARATUS FOR THE GYMNASTIC EXERCISING OF PATIENTS SUFFERING FROM POTT'S DISEASE OR LATERAL CURVATURE OF THE SPINE.

Another mode of extension is shown in accompanying cut for the above named purposes, the patient pulling himself up by means of a rope and compound pulleys, the former having egg-shaped blocks, secured by the rope being tied into a knot under each, and at regular intervals; these blocks enable the patient to draw himself up with ease. A padded skin-piece looped into an iron rod, completes the apparatus. No other person should pull the ropes in this exercise, and the patient should always hold both hands elevated, one nearly opposite the forehead and the other above. This contrivance can be hung up in any part of the home.

State whether for child or adult:

7081	Apparatus without Tripod	\$ 8 00
7081*	" complete with Tripod	17 00
7084	" " with Disjointed Tripod, put up in canvas pouch	20 00
7085	Tripod	5 00
7086	Disjointed Tripod	12 00



7081

Orthopedic Apparatus.

2088* DR. L. A. SAYRE'S APPARATUS FOR SUSPENDING PATIENTS,
TO APPLY PLASTER OF PARIS JACKETS.



It consists of a curved steel rod, having an eye in its center and hooks at each end.

From the end hooks loops pass down under each axilla, and also to the chin and occiput, to support the head. The length of these loops can be regulated to suit every patient, by separate straps and buckles that connect the loops with the iron rod. Those parts of the loops that pass under the axilla and chin are well padded.

The whole apparatus is attached by the eye in the center of the iron rod to one of a set of compound pulleys; and the opposite pulley secured to the ceiling or some other safe attachment of sufficient height; the patient is easily elevated by the hands under the axilla, chin and occiput, until the heels cannot touch the floor.

Apparatus with compound pulleys, plain finish . . . \$5.00
Apparatus with compound pulleys, all metal parts . . . \$6.00

nickel plated 10 ea

4 Class Neck Beads, different sizes	each	3.00
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Tripod see page 245

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7996* CHARCOT'S SUSPENSION APPARATUS.



This apparatus is similar to Sayre's, with a slight modification of the curved steel rod and chin-neck-band: the latter is easier adjusted to various size heads.

Apparatus with compound pulleys, plain finish	\$4.00
" " " all metal parts nickel plated	\$6.00

754.* Showing chin neck-band applied.

See Information and Terms on page 842.

Orthopedic Apparatus.**8000. SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. R. L. PITFIELD'S.**

Made of strong non-elastic webbing and reinforced at various places with light, pliable steel stays. Adjustable in front by means of straps and buckles. Perineal straps are provided. The appliance should be worn tight.

When ordering, state

Circumference of pelvis above trochanter.

Circumference just above crests of ilium.

Price, according to size.

\$4.00 to \$7.00.

8002.* SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. JAMES K. YOUNG'S.

8002, back view



8002, front view

This most efficient device is a combination of an abdominal supporter of special construction and a triangular pad which is well cushioned in order to exert the required pressure upon the sacrum. The pressure either to the upper or to the lower region of the sacrum is regulated by means of two semi-circular, hard-tempered steel springs to which strong straps of webbing are firmly attached and which are buckled in front.

In order to render the pressure upon the upper region of the sacrum, the upper straps are drawn tight while the lower ones remain moderately loose; proceed vice versa in order to center the pressure upon the lower region of the sacrum.

Perineal straps are used when required to retain the appliance in position.

When ordering, state circumference of pelvis above trochanter major (13), as per diagram on page 543.

Price

\$10.00 to \$14.00

8004.* SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. G. G. DAVIS'.

8004

It is constructed on the principle of a truss, consisting chiefly of a well-tempered steel spring, which is fixed accurately to the shape of the pelvis just below the crests of ilium, and incorporated into a soft padded leather cover. The extreme ends of the spring are made wide and provided each with a stud to which an adjustable strap is fastened, connecting the two ends and holding the appliance firm to the body. The desired pressure upon the sacrum is effected by a well-padded back plate which is attached to the posterior part of the spring. Perineal straps are not necessary in this appliance.

When ordering, state circumference of body below the crests of ilium.

Price, according to finish

from \$8.00 to \$22.00

See Information and Terms on page 542.

All articles illustrated are designated by a *.

Orthopedic Apparatus.

8006.* PELVIC SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. DE FOREST WILLARD'S.



8006, back view



8006, front view

In this appliance the pressure upon the sacro-iliac junction is exerted by two short upright bars about six to eight inches long which are rigidly attached to a steel grille that embraces the pelvis half way around posteriorly. Two lateral short upright bars at each side extend to the crests of iliacs and are connected at their upper ends with the posterior bars by means of leather straps.

The steel skeleton constructed in this manner is comfortably lined with felt, accurately shaped and closely fitted to the respective parts of the body, and it forms the principal part of the apparatus.

The anterior portion consists of a strong or canvas belt, adjustable by means of three or more buckles and webbing straps, of which one forms a substantial connection with the lateral bars. In drawing the webbing straps tightly, the pressure upon the sacrum is increased; the regulation may be made according to the requirements and comfort of the patient. Perineal straps are used when required.

Measurements required:

1. Patient's name (or sex).
2. Circumference of pelvis above the trochanters (13).
3. Circumference (and above the crests of iliacs) (15).

Price

\$18.00 to \$22.00

8007.* PELVIC SUPPORTER FOR THE RELIEF OF SACRO-ILIAC SPRAIN AND LUXATION, DR. WM. J. MERRILL'S.



8007, back view



8007, front view

This appliance consists mainly of a well-padded, adjustable back plate, mounted on springs, and an equally well-padded steel frame in two sections, all braced together substantially. Each half of the steel frame represents a band passing half way around the pelvis just above the trochanter and extending posteriorly to the anterior superior spine, where it terminates in a pad. The upper or crest portions are curved upon their flat sides to fit snugly over the astra. This form of construction creates pronounced stability at the ilia.

The pressure upon the sacrum is produced by the combined forces of the back springs and the steel frame, supplemented by the backward stress on the pads below the anterior superior spines.

The front part of the apparatus, which consists of leas or other soft material, covers the abdomen, and is provided with straps and buckles to allow for ample adjustment. It holds the appliance firmly to the body. Perineal straps are not required.

A planer of Paris cast of the pelvis may be taken for more accurate fitting; however, the same is not absolutely necessary.

Measurements required, same as for No. 8006.

Price, according to size

\$15.00 to \$22.00

Orthopedic Apparatus.

8095.* APPARATUS FOR THE PREVENTION OF MASTURBATION, FOR FEMALE.

Made of jean material and thoroughly reinforced by non-corrosive steel stays. It embraces the body from the upper part of the abdomen to the middle of the thigh, and is so constructed as to make the advance toward the genitals impossible even to the most impetuous child. Soft padding is provided where the metal parts come in contact with the body.

The metal protector is made of silver wire mesh, and firmly attached to a steel girdle running half way around the pelvis below the crests of iliacs. It is held close to the body by genital chaps, which are covered with rubber tubing and locked to the pelvic girdle. The apparatus can be worn constantly, and is so arranged that it does not interfere with defecation.

Measurements and outlines required, as per diagrams and directions on pages 543, 544 and 545:

1. Patient's name and age.
2. Circumference of body at line of umbilicus.
3. Circumference of body below the crests of iliacs.
4. Circumference of thigh at maximum (11).
5. Circumference at upper third of thigh (10).
6. Circumference at middle of thigh (9).
7. Distance from middle of thigh to waist (9-10).
8. Outline of pelvis below crests of iliacs.
9. Outline of body from waist to middle of thighs.



When taking outline of body, lay patient on back on a smooth sheet of paper; with a long pencil, holding the same perpendicularly, draw a line from the waist to middle of thigh and from pelvis to middle of thigh, on both sides, and mark the figures on same paper at their respective places.

Price \$40.00 to \$50.00

8096.* APPARATUS FOR THE PREVENTION OF MASTURBATION, FOR MALE.

Constructed like No. 8095, except that the receiving part for the genitals is made of perforated sheet silver.

Price \$50.00 to \$60.00

8097.* BRADFORD'S FRAME.

The acute stage of various orthopedic diseases of tuberculous origin requires absolute rest to the patient; Pott's disease may be mentioned as one of the chief types of the group. The illustration shows the Bradford Frame, which is



constructed for the purpose of retaining the child in a fixed position on the stretched surfaces of the canvas portions, so as to have no superincumbent weight pressing upon any portion of the spine. An opening between the two canvas coverings is provided for direction.

If required, pulleys for extension may readily be attached to either the head or the foot-end of the frame.

When ordering, note that the frame should be about 8 inches longer than the patient and 6 inches wider than the breadth of the shoulders.

It is made in three sizes:
45 x 25 in., \$13.00; 55 x 20 in., \$14.00; 65 x 25 in., \$15.00.

Pulley attachment, extra \$4.00

Jury mast, extra 4.50

PLEASE DO NOT MUTILATE THIS BOOK.

In ordering, state number of apparatus and give directions required, and we can execute orders satisfactorily. Cutting out illustrations does not aid us any, but destroys the page for future reference.

Orthopedic Apparatus.

8022.* ARTIFICIAL NOSE.

Made of specially vulcanized caoutchouc, shaped to conform to the rules of beauty and to resemble as near as possible the lost member.

It is accurately fitted to the contours of the respective parts of the face, covering the remnants of the nose as well as the openings. It is held in place by a pair of spectacles with wide nose piece, to which latter the artificial nose is attached securely. This manner of construction has the decided advantage of not requiring any springs to enter the nose.

It is worn with ease, very light in weight, life-like, and if properly fitted will hardly show points of attachment; it is painted to correspond to the tint of the face.

When ordering, give general description of the case, if possible, send photograph of patient before mutilation of nose. Also furnish accurate impression of affected parts and surroundings.

Price \$50.00 to \$100.00



8022.

832. DR. R. TAIT MCKENZIE'S SCOLIOSIOMETER, FOR THE ACCURATE MEASURING OF SPINAL CURVATURES.

It records efficiently the difference in levels of the shoulders, of the points of the scapula, and of the iliac crests; measures the deviation of the spinous processes at all levels, gives the outlines of the hips and shoulders, and demonstrates the nature of rotation when present.

The instrument is fixed on a horizontal iron stand, into which a rigid upright rod is screwed firmly. To this rod two arms are attached by collars that can be moved up and down and clamped by thumb screws. The lower end of the upper passes behind the patient and fixes the hips, preventing any sidewise movement. The upper arm passes in front of the patient and fixes the shoulders. To the collar of the upper arm is attached a pantograph, set to make tracings reduced to one-fourth.

To take a tracing, the spinous processes are marked with a flesh pencil; the patient is placed on the stand, the hips are clamped at the level of the mechanism; the shoulder arm is then moved up or down, adjusted, and clamped after the patient has settled into the habitual position. With the pointer of the pantograph then follow the line of the spine, note the alaral cleft and the points of the scapula, and then finish with an outline of the shoulders and hips.

In taking cross sections, in order to show the rotation, let the patient stand bent over, and the pointer of the pantograph follow lightly the line of the back at the desired level.

Price on application.

8023.* BRACE WRENCHES.



Double, with two widths of jaws; forged steel, for bending and shaping the steel bars of every kind of orthopedic apparatus. Very useful to the physician, as with their aid he can readily remedy any rotatory posture, or improve the shape of the brace as the condition may indicate.

Price per set of two double wrenches.

\$2.50 each.

Artificial Limbs.

We present herewith a few illustrations of the most important and successful styles of artificial legs and arms which we manufacture, and which have become recognized as the most durably and lightly constructed limbs on the market, combining comfort to the wearer and neatness in appearance.

Particular attention is directed to the artificial feet and hands, the former of which being constructed in very substantial manner, capable of supporting the weight of the body, and articulating in a most satisfactory degree; while the hands are a close imitation of the natural member, articulating like it, each joint movable, an artistic substitute for the lost member.

The frames of our artificial legs and arms are carved from selected willow wood, which has no equal as regards elasticity and firmness; covered with rawhide specially prepared for the purpose, and enameled flesh color.

When ordering artificial limbs it must be remembered that it is preferable to have the patient present to be measured. However, with our new system of measuring we are now enabled to so adjust the manufacture of these appliances that a good fit can be guaranteed when proper measurements have been sent to us. Parties at a distance can thus order from us without incurring the expense incident to a long journey. Suitable measurement blanks will be sent free on application; they contain plain instructions, so that almost any one of ordinary intelligence can take the measurements without difficulty.

A plaster of Paris cast of the stump is required in all cases; particular care should be exercised where the stump has any irregular or uncommon shaped surfaces.

TERMS.

At least one-half the price of an artificial limb must be paid at the time the order is placed, the balance when the limb is completed.

As we guarantee to deliver a perfectly fitting limb and warrant it for three years, customers take no risk by paying in advance, while protecting us against loss.

It should be understood that this guarantee does not obligate us to keep a limb in repair for three years. It protects against poor material or inferior workmanship; but ordinary wear and tear, improper treatment and accidents are at the risk of the owner.

Artificial Legs.



8030



8032



Closed.



Side view open

8054

8030* ARTIFICIAL LEG FOR AMPUTATION BETWEEN ANKLE AND KNEE JOINTS, WITH ADJUSTABLE SOCKET. The lower portion of the leg is of selected willow wood; its upper section and the thigh socket adjustable; the latter provided with improved clasp (fig. 8054), which allows instant fastening.

Its construction is generally preferred in recent amputations, as the socket can be regulated to suit the comfort of the wearer and the size of the stump, which in most cases is liable to become thinner in time. Choice of foot fig. 8032 or fig. 8034; see page 604.

The plaster of Paris mould should extend to about six inches above the knee-joint.
Price \$85 00

8032* ARTIFICIAL LEG FOR AMPUTATION BELOW THE KNEE, WITH SOLID SOCKET. We recommend this style of limb in all cases of short stump below the knee, or where no further shrinkage of the stump is anticipated, also when an artificial leg has already been worn.

Constructed like No. 8030, but without the leather adjustment at the lower leg socket.
Price \$85 00

8054* IMPROVED ADJUSTABLE THIGH CLASP. This is an ingenious device which will readily and quickly fasten and unfasten the thigh-socket after once the lacing has been adjusted to its usage. We provide this clasp on all our legs for amputation of lower leg.

See Information and Terms on page 601.
Measurements blank furnished on application.

Artificial Legs.



859



858



860

859.* ARTIFICIAL LEG FOR DISARTICULATION AT THE KNEE-JOINT, OR FOR VERY SHORT STUMPS. (Knee-bearing Stumps.) For certain cases it is modified so as to bear part of the weight of the body on the ischium, thus relieving the pressure on the end of the stump. The leather socket is adjustable at front by lacing, and provided at bottom with a soft pad. The lower section of the leg is continued like No. 850. Motion at knee and ankle joints.

Price

\$95.00

858.* ARTIFICIAL LEG FOR THIGH AMPUTATION, WITH ADJUSTABLE SOCKET. Suitable for any amputation above the knee. Its walls are worked out almost to a shell in order to reduce the weight to a minimum. The knee-joint is of improved design and works automatically.

In the case of a very short stump an extension may be provided so below the crest of shin, with a joint at the mechanism, and a band around the pelvis to give additional security.

Price

\$100.00

860.* ARTIFICIAL LEG FOR THIGH AMPUTATION, WITH SOLID SOCKET. It is preferably selected for cases where an artificial leg has been worn for some years, and where no further change in the size of the stump is anticipated. Motion at knee and ankle.

It is the lightest and most comfortable leg for thigh amputation ever made, and is guaranteed to give full satisfaction in every particular.

Price

\$115.00

See Information and Terms on page 601.
Measurement blanks furnished on application.

Artificial Legs.



8062



8064

8062.* ARTIFICIAL FOOT. It is made of willow wood, neatly covered with rawhide and cransled flesh color. The bottom part consists of either sponge-rubber or thick felt as preferred, within toe-point, as these materials are sufficiently flexible.

The form of ankle-joint has been in use for many years, and has become perfected with special reference to the combination of simplicity, strength and lightness. The axis is a hollow steel cylinder, securely fastened to the ankle part by two vertical steel rods. The lower branch is fastened inside the metal cylinder by a steel pin, connecting the foot to the ankle; the pin at its very end rests on the bottom of the foot and is adjustable. The smoothly polished surface of the cylinder works in a raw hide socket and requires but very little lubricating.

The tendon or heel cord is of very strong material; it limits the forward motion of the leg and is an important part in the movement of the foot, while a strong rubber cord at front counteracts and allows of a natural foot action when walking.

8064.* ARTIFICIAL FOOT. In general construction same as fig. 8062, with the difference that the foot is all wood anatomically shaped to represent a well-built natural foot, and that it has a toe-point. The toe part is hinged to the foot by steel flanges, the movement being controlled by a strong, well-tempered steel spring which is incorporated in the instep of the foot.



8064



8066

According to the individual desire of our patrons we provide our artificial legs with either of these two styles of feet.

8064.* 8066.* SHOULDER STRAPS FOR ARTIFICIAL LEGS FOR AMPUTATION BELOW THE KNEE. With few exceptions it is advisable to use them in connection with the different forms of artificial legs. They are especially desirable to the beginner and may be discarded after the limb has been worn for some time.

Made of strong, two-inch wide, non-elastic webbing, generally with a piece of elastic webbing near either or both ends.

One shoulder strap furnished free of charge with each leg. Extra shoulder straps, fig. 8064 or fig. 8066 . . . each \$2.00

See Information and Terms on page 601.
Measurement blanks furnished on application.

Artificial Legs.



8070* ARTIFICIAL LEG FOR DISARTICULATION AT THE HIP JOINT. The calf and thigh-sockets are shaped artistically to correspond with the contours of the natural leg, the walls carved to thin shells covered with rawhide, thus making the leg light and durable.

A well-fitting and comfortably padded socket receives the amputated side of the pelvis, held firmly in place by a broad belt. The inner edge of the lower surface of the socket is reinforced with a slotted strip of metal, in which slides a steel pin, to relieve the strain at the trochanter joint. The knee and trochanter joints are provided with automatic lock devices, permitting the leg to be bent at angle when sitting. Choice of foot fig. 8070 or fig. 8074; see page 402.

A plaster of Paris cast of the pelvis is required.

Price \$150.00 to \$200.00.

SHOULDER STRAPS FOR ARTIFICIAL LEGS FOR THIGH AMPUTATION.

They facilitate the proper use of the artificial leg, and assist in carrying the weight of the same. The design is selected according to the existing conditions of the stump and the individual requirements.

8072* Made of non-elastic webbing with partial insertion of elastic; provided at front with adjustable buckles and snap-catches.

8074* The bands are supplemented by a waist band; generally used for short stumps. The connecting straps run through rollers fastened at each side of the socket, and are self-adjusting.

One pair of shoulder straps furnished free of charge with each leg. Extra shoulder straps, fig. 8072 or fig. 8074 each \$5.00

See Information and Terms on page 401.

Measurement blanks furnished on application.

Artificial Legs.



- 8076.* ARTIFICIAL FOOT FOR CHOPART'S AMPUTATION (Our Improved Model).** A forged steel sole incorporated into a wooden duck form a most substantial base for the apparatus. Fastened to it is a reinforced saddle stirrup, which terminates upward into lateral steel bars with joints at the ankle. The appliance is held firmly to the leg by an adjustable sole leather legging that is riveted to the side bars. An artificial muscle attached posteriorly controls the forward movement of the foot.

Price \$50 00

- 8078.* ARTIFICIAL FOOT FOR PARTIAL FOOT AMPUTATION.** The perfection attained in the construction of this peculiar artificial substitute has overcome all the objections made against the operation.

The foot is made of wood, with either articulating toe-joint or flexible bottom, and is reinforced with a strong steel sole. The front or resting part of the trial socket is shaped of non-corrosive metal, the interior surface well padded. It is so constructed, that pressure will be distributed over the front area, the shin bone and inner parts of the leg being protected and not subjected to undue pressure. The rear part is of leather, shaped to fit the calf of the leg; it is provided with eyelets, and laces for comfortable adjustment.

Sockings and shoes are drawn over the foot, rendering the appliances a counter-part in appearance to the sound leg.

To secure a perfect fit a glasser of Paris cast should be carefully taken of the stump of foot and of the leg up to below head of shin.

Price \$50 00

See Information and Terms on page 607.
Measurement Markers furnished on application.

Peg Legs.



8080



8082



8084

8080* PEG LEG FOR AMPUTATION BETWEEN THE ANKLE AND KNEE-JOINTS. Intended for laboring men and others whose means will not permit of the purchase of the more expensive artificial limb. It is also a serviceable appliance in recent amputations, before the stump is ready for a socket leg.

The frame and peg are made of wood, the lower extremity provided with ferrule and rubber bottom; the knee rests upon a well-padded cushion. Two adjustable leather bands at thigh and a pelvic girdle are attached to secure proper hold to stump and body.

Price

\$15 00

8082* PEG LEG FOR THIGH AMPUTATION. A substitute for the lost limb at lower price than an articulated artificial leg. It is made of light and durable wood, shaped gracefully, covered with rawhide, enameled, and provided with a strong rubber base. The upper part of the thigh socket is made of leather and is adjustable. A pair of shoulder straps, either fig. 8072 or fig. 8074, is furnished with this limb.

Price

\$50 00

8084* PEG LEG FOR DISARTICULATION AT THE HIP-JOINT, or for very short thigh stump, which does not permit the use of the previously described bucket limb.

The peg is of bamboo, with steel ferrule at top and bottom ends and goat rubber tip. The receiving socket is of sole leather, accurately shaped over a plaster of Paris mould and well padded. A lock-joint device permits the peg to be bent at angle when sitting. A pair of shoulder straps, either fig. 8072 or fig. 8074, is furnished with this peg leg.

Price

\$75 00

See Information and Terms on page 601.

Stump Socks for Artificial Limbs.



A stump bears the same relation to an artificial leg that a natural foot does to a shoe. Comfort and cleanliness demand that a sock should be worn on the stump, the same as on the foot.

A sock in either case provides a medium for collecting and absorbing the waste and moisture thrown off from the skin, and by removing the socks, airing and frequently washing them, the stump will be kept in a more healthy condition, and the socket of the leg will be better cared for.

Every wearer of an artificial limb should be provided with an ample supply of socks, so that frequent changes can be made. The same regard should be given to the stump as is given to the natural foot. If a stump perspires excessively, changes should be made more frequently.

We keep on hand a large supply of stump socks, and are able to fill orders promptly. The yarn for our woolen socks is especially prepared at the mills for our purpose. It is the best and softest that can be procured, and absolutely free from cotton or any foreign fibre, and our cotton socks are made of the choicest staple that can be put into thread.

They are made in white or brown, as may be preferred.

Our stock consists of several different sizes, ranging from 10 to 35 inches in length, and wide enough to fit any ordinary stump.

In ordering, give length of sock desired and the following measurements:

Circumference of stump, close to body,			
"	4	inches below	"
"	8	"	"
"	12	"	"
"	16	"	"
"	20	"	"
"	24	"	"
"	28	"	"

In giving the length of sock and determining the number of size, five inches should be added to the length of stump to allow for turning over the top of leg and the shortening caused by the stretch in drawing on the stump.

In some cases of amputation below the knee, a short sock in addition to a full length one is sometimes desired. For such cases Nos. 6, 7 or 8 will be suitable.

The following schedule will enable anyone to determine the sizes and the prices of the socks required.

No.	SIZES.		COTTON.		WOOLIES.	
	Length of Sock, in inches.	Circumference at largest part of Stump, in inches.	Price Each.	Price per Dozen.	Price Each.	Price per Dozen.
1	1 to 10	Under 15	\$0.40	\$5.00	\$0.40	\$ 4.00
2	10 to 15	Under 15	.30	3.00	.20	2.00
3	10 to 15	Over 15	.40	4.00	.50	5.00
4	15 to 20	Under 15	.40	4.00	.60	6.00
5	15 to 20	Over 15	.50	5.00	.70	7.00
6	20 to 25	Under 15	.50	5.00	.70	7.00
7	20 to 25	Over 15	.60	6.00	.80	8.00
8	25 to 30	Under 15	.60	6.00	.80	8.00
9	25 to 30	Over 15	.70	7.00	.90	9.00
10	30 to 35	Under 15	.70	7.00	.90	9.00
11	30 to 35	Over 15	.80	8.00	1.00	10.00

One-quarter of size-half dozen sold at dozen rates.

Artificial Arms and Hands.

The artificial arm is made to fulfill various requirements, not only to fill out the sleeve of the coat and to conceal the mutilation, but also to do a certain amount of actual work, provided, however, that the remaining stump is of sufficient length and strength to control the movements of the artificial member; it further helps to assist the opposite hand, and restores the natural appearance to the dismembered side.

More particularly has it been our aim to construct an artificial hand that should be the nearest approach to the natural hand. We have been very successful in the



accomplishment of our efforts in this direction and present herewith a decided innovation in the line of artificial hands. It is made of selected wood, very light in weight; the fingers carved neatly; the articulations joined artistically and easily movable; the wrist is provided with ball bearing, permitting free motion.

We attach this style of hand to all our artificial arms, unless a lower priced hand is specifically ordered.

A glove should be worn over the artificial hand at all times.

When ordering an artificial arm, it is necessary to furnish us a plaster of Paris model of the stump. Measurement blanks are furnished on application.



6001. ARTIFICIAL HAND FOR WRIST-JOINT AMPUTATION.

As such operation usually leaves the stump somewhat larger at the end than immediately above, a lacing socket reaching to below the elbow is provided, to receive the stump, and to establish a firm hold on the arm, so that an extension above the elbow joint may be omitted.

The leather socket is well shaped over a plaster of Paris cast and firmly attached to the wooden hand. Provision can be made for attachment of knife, fork or hook, same as on other hands.

Price, including thoroughly articulated hand (see above) \$60.00
Price, including hand with only the thumb articulated 50.00



6002. ARTIFICIAL ARM FOR AMPUTATION AT OR ABOVE THE WRIST-JOINT.

This type is preferably applied when the styloid prominence have been removed, and the stump has become tapering.

The forearm socket is carefully made over a plaster of Paris cast of the stump and is adjustable by lacing. It is connected with the arm socket by either regulating straps or lateral steel hinges. The hand has ball bearing at wrist-joint, and is firmly attached to the forearm socket.

Price, including thoroughly articulated hand (see above) \$75.00
Price, including hand with only the thumb articulated 60.00

See Information and Terms on page 601.

Measurement blanks furnished on application.

Artificial Arms and Hands.



9004

9006

9008

9004.* **ARTIFICIAL ARM FOR AMPUTATION OF THE FOREARM.** Similar to No. 9006, adapted, however, for radial stumps that are shorter than five inches, and that require a firm method of securing the stump socket to the upper arm than by the leather joints. While there is somewhat less freedom in the elbow movement, the steel joints offer the advantage that they place the arm under firmer control of the stump. The hand has ball bearing at wrist-joint.

Price, including thoroughly articulated hand (see page 600) \$75 00

Price, including hand with only the thumb articulated 60 00

Price, with steel hook instead of artificial hand 30 00

Tools for use with artificial arms, such as knives, forks and hooks, furnished at lowest prices.

9006.* **ARTIFICIAL ARM FOR AMPUTATION ABOVE THE ELBOW.** Adapted for humeral stumps; its range of utility depends on the length of the stump.

Made of specially prepared leather and mounted with two lateral steel bars jointed at the elbow. The elbow joint will permit both flexion and extension; it can be retained in angular position by means of an automatic device, and will in such position enable the wearer to carry various articles.

The hand has ball bearing at wrist-joint and is detachable; by pressing a push button above the wrist-joint, it may be unlocked from the wrist plate and a knife, fork or hook put in its place.

Price, including thoroughly articulated hand (see page 600) \$85 00

Price, including hand with only the thumb articulated 75 00

9008.* **ARTIFICIAL ARM FOR AMPUTATION AT THE SHOULDER JOINT.**

It will not only provide a means for assisting the other arm, but will also keep the shoulders in position, and ensure symmetry to the body.

The base of the appliance is a leather shoulder cap, carefully formed over a plaster of Paris cast of the affected shoulder and reinforced with a circular steel band, which unites at the top of the shoulder; the leather is perforated to prevent excessive perspiration. It is held firmly to the body by broad bands of webbing, which pass around the thorax and underneath the axilla of the opposite side, and which adjust anteriorly by a strong buckle. The position of the shoulder joint is oblique, and allows for natural movement of the arm while walking.

In most other respects the construction of the arm is similar to No. 9006.

Price, including thoroughly articulated hand (see page 600) \$125 00

Price, including hand with only the thumb articulated 110 00

See Particulars and Terms on page 601.

Measurement blanks furnished on application.





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